

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT****CLASS II PC REPORT**

Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

Product Name: 802.11 a/b/g/n/ac RTL8822CE Combo Module

Brand Name: Acer

Model No.: RTL8822CE

Model Difference: N/A

Report Number: E2/2021/80036

FCC ID HLZRTL8822CE

Issue Date: October 7, 2021

Date of Test: August 9, 2021 ~ September 14, 2021

Date of EUT Received: August 9, 2021

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/80036	00	Original	October 7, 2021	Yuri Tsai

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	<i>acer</i>
Model No. of FCC Host:	N21Q5
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	N/A
Model No. of BT/WLAN Module:	RTL8822CE
Class II Permissive change:	802.11 a/b/g/n/ac RTL8822CE Combo Module INSTALLED IN Notebook Computer
Power Supply:	11.55Vdc from Rechargeable Li-ion Battery or 5V/ 9V/ 12V/ 15/ 20Vdc from AC/DC Adapter

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	DQ6K15G5900(81EABK15.G59)	Main	5150~5250	3.49	V
				5250~5350	3.52	V
				5470~5725	3.05	
				5725~5850	2.94	
PIFA	WNC	DQ6K15G5900(81EABK15.G59)	Aux	5150~5250	2.98	
				5250~5350	2.98	
				5470~5725	3.34	V
				5725~5850	3.34	V

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	21.79 dBm	OFDM
	5260~5320	4	21.72 dBm	OFDM
	5500~5720	12	21.70 dBm	OFDM
	5745~5825	5	24.78 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	22.93 dBm	OFDM
	5270~5310	2	23.04 dBm	OFDM
	5510~5710	6	23.29 dBm	OFDM
	5755~5795	2	23.25 dBm	OFDM
ac_VHT 80M	5210	1	18.12 dBm	OFDM
	5290	1	17.85 dBm	OFDM
	5530~5690	3	21.86 dBm	OFDM
	5775	1	20.22 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

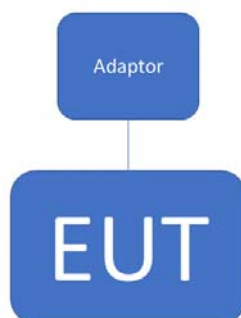


Fig. 2-2 Conducted (Antenna Port) Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Adapter	LITEON	PA-1650-58	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/n/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5745 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			

Note:

The field strength of radiation emission was measured as NB plane. *Transmitter for channel Low, Mid and High.*

4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11a_VHT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
The Maximum Output Power Measurement	+/- 1 dB

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	2.64	dB	9kHz~30MHz
	+/-	4.93	dB	30MHz - 1000MHz
	+/-	4.81	dB	1GHz - 18GHz
	+/-	4.52	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64	dB	9kHz~30MHz
	+/-	4.45	dB	30MHz - 1000MHz
	+/-	4.81	dB	1GHz - 18GHz
	+/-	4.52	dB	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

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Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit attenuation has been applied in the test results.

6.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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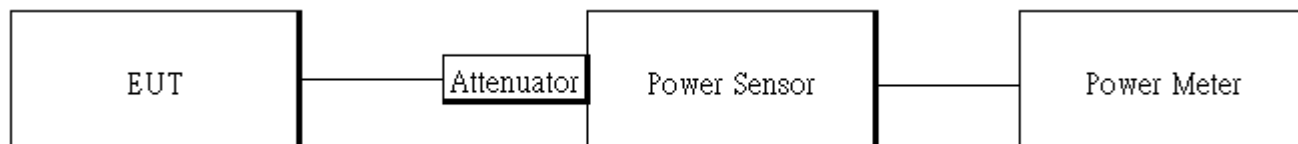
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7.

6.3 Measurement Equipment Used

6.4 Test Set-up



6.5 Measurement Result

6.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	95	18.55	71.614	23.98	PASS
44	5220	6	95	18.54	71.450	23.98	PASS
48	5240	6	95	18.60	72.444	23.98	PASS
52	5260	6	95	18.64	73.114	23.98	PASS
60	5300	6	93	18.37	68.707	23.98	PASS
64	5320	6	94	18.47	70.307	23.98	PASS
100	5500	6	81	17.56	57.016	23.98	PASS
116	5580	6	95	18.48	70.469	23.98	PASS
140	5700	6	81	15.53	35.727	23.98	PASS
144	5720(U-NII 2C)	6	79	15.08	32.24	23.98	PASS
144	5720 (U-NII 3)	6	79	12.06	16.06	30	PASS
149	5745	6	100	21.56	143.219	30	PASS
157	5785	6	101	21.70	147.911	30	PASS
165	5825	6	101	21.59	144.212	30	PASS

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802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	95	18.65	73.282	23.98	PASS
44	5220	6	95	18.62	72.778	23.98	PASS
48	5240	6	95	18.69	73.961	23.98	PASS
52	5260	6	95	18.72	74.473	23.98	PASS
60	5300	6	93	18.46	70.146	23.98	PASS
64	5320	6	94	18.59	72.277	23.98	PASS
100	5500	6	81	17.61	57.677	23.98	PASS
116	5580	6	85	18.59	72.277	23.98	PASS
140	5700	6	81	15.65	36.728	23.98	PASS
144	5720(U-NII 2C)	6	79	15.25	33.46	23.76	PASS
144	5720 (U-NII 3)	6	79	11.97	15.74	30	PASS
149	5745	6	100	21.66	146.555	30	PASS
157	5785	6	101	21.79	151.008	30	PASS
165	5825	6	101	21.68	147.231	30	PASS

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	112	17.64	19.47	21.66	146.588	23.73	PASS
44	5220	6	113	17.85	19.34	21.67	146.855	23.73	PASS
48	5240	6	109	18.16	19.19	21.72	148.449	23.73	PASS
52	5260	6	111	18.45	18.77	21.62	145.320	23.72	PASS
60	5300	6	109	18.4	18.51	21.47	140.141	23.72	PASS
64	5320	6	110	18.49	18.51	21.51	141.590	23.72	PASS
100	5500	6	85	17.33	17.46	20.41	109.794	23.77	PASS
116	5580	6	106	18.48	18.83	21.67	146.853	23.77	PASS
140	5700	6	83	16.86	16.97	19.93	98.303	23.77	PASS
144	5720(U-NII 2C)	6	100	15.94	16.07	19.02	79.720	23.76	PASS
144	5720 (U-NII 3)	6	100	12.92	12.79	15.87	38.593	29.85	PASS
149	5745	6	113	21.57	21.96	24.78	300.585	29.85	PASS
157	5785	6	112	21.47	21.97	24.74	297.680	29.85	PASS
165	5825	6	111	21.6	21.76	24.69	294.512	29.85	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	107	18.57	71.945	23.98	PASS
44	5220	MCS0	107	18.62	72.778	23.98	PASS
48	5240	MCS0	107	18.55	71.614	23.98	PASS
52	5260	MCS0	107	18.64	73.114	23.98	PASS
60	5300	MCS0	102	17.71	59.020	23.98	PASS
64	5320	MCS0	109	18.53	71.285	23.98	PASS
100	5500	MCS0	92	16.53	44.978	23.98	PASS
116	5580	MCS0	94	18.49	70.632	23.98	PASS
140	5700	MCS0	91	16.48	44.463	23.98	PASS
144	5720(U-NII 2C)	MCS0	94	15.81	38.11	23.98	PASS
144	5720 (U-NII 3)	MCS0	94	11.04	12.71	30	PASS
149	5745	MCS0	107	21.68	147.231	30	PASS
157	5785	MCS0	107	21.65	146.218	30	PASS
165	5825	MCS0	106	21.66	146.555	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	107	18.68	73.790	23.98	PASS
44	5220	MCS0	107	18.71	74.302	23.98	PASS
48	5240	MCS0	107	18.67	73.621	23.98	PASS
52	5260	MCS0	107	18.72	74.473	23.98	PASS
60	5300	MCS0	102	17.89	61.518	23.98	PASS
64	5320	MCS0	109	18.63	72.946	23.98	PASS
100	5500	MCS0	92	16.62	45.920	23.98	PASS
116	5580	MCS0	94	18.61	72.611	23.98	PASS
140	5700	MCS0	91	16.64	46.132	23.98	PASS
144	5720(U-NII 2C)	MCS0	94	15.95	39.32	23.98	PASS
144	5720 (U-NII 3)	MCS0	94	10.99	12.56	30	PASS
149	5745	MCS0	107	21.78	150.661	30	PASS
157	5785	MCS0	107	21.73	148.936	30	PASS
165	5825	MCS0	107	21.71	148.252	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	103	17.95	19.37	21.73	148.870	23.73	PASS
44	5220	MCS0	97	18.19	19.29	21.79	150.835	23.73	PASS
48	5240	MCS0	97	18.16	19.31	21.78	150.774	23.73	PASS
52	5260	MCS0	98	18.43	18.98	21.72	148.731	23.72	PASS
60	5300	MCS0	95	17.85	17.82	20.85	121.488	23.72	PASS
64	5320	MCS0	98	18.61	18.66	21.65	146.062	23.72	PASS
100	5500	MCS0	87	16.49	16.77	19.64	92.099	23.77	PASS
116	5580	MCS0	92	17.89	19.37	21.70	148.014	23.77	PASS
140	5700	MCS0	83	16.57	16.68	19.64	91.953	23.77	PASS
144	5720(U-NII 2C)	MCS0	86	16.49	16.61	19.56	90.344	22.65	PASS
144	5720 (U-NII 3)	MCS0	86	11.72	11.65	14.70	29.480	29.85	PASS
149	5745	MCS0	102	21.55	21.89	24.73	297.415	29.85	PASS
157	5785	MCS0	102	21.5	21.94	24.74	297.569	29.85	PASS
165	5825	MCS0	102	21.66	21.75	24.72	296.178	29.85	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	108	16.33	42.954	23.98	PASS
46	5230	MCS0	120	19.78	95.060	23.98	PASS
54	5270	MCS0	120	19.85	96.605	23.98	PASS
62	5310	MCS0	105	15.92	39.084	23.98	PASS
102	5510	MCS0	94	14.83	30.409	23.98	PASS
110	5550	MCS0	110	20.14	103.276	23.98	PASS
134	5670	MCS0	105	18.66	73.451	23.98	PASS
142	5710(U-NII 2C)	MCS0	111	18.48	70.40	23.98	PASS
142	5710 (U-NII 3)	MCS0	111	11.62	14.51	30	PASS
151	5755	MCS0	113	20.12	102.802	30	PASS
159	5795	MCS0	112	19.95	98.855	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	108	16.42	43.853	23.98	PASS
46	5230	MCS0	120	19.88	97.275	23.98	PASS
54	5270	MCS0	120	19.95	98.855	23.98	PASS
62	5310	MCS0	105	16.02	39.994	23.98	PASS
102	5510	MCS0	94	14.92	31.046	23.98	PASS
110	5550	MCS0	110	20.21	104.954	23.98	PASS
134	5670	MCS0	105	18.77	75.336	23.98	PASS
142	5710(U-NII 2C)	MCS0	111	18.73	74.59	23.98	PASS
142	5710 (U-NII 3)	MCS0	111	10.97	12.51	30	PASS
151	5755	MCS0	113	20.23	105.439	30	PASS
159	5795	MCS0	112	20.08	101.859	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	90	15.78	17.03	19.46	88.310	23.73	PASS
46	5230	MCS0	106	19.26	20.49	22.93	196.277	23.73	PASS
54	5270	MCS0	106	19.77	20.28	23.04	201.501	23.72	PASS
62	5310	MCS0	88	15.97	16.06	19.03	79.901	23.72	PASS
102	5510	MCS0	80	14.55	15.27	17.94	62.161	23.77	PASS
110	5550	MCS0	100	19.81	20.71	23.29	213.480	23.77	PASS
134	5670	MCS0	95	18.77	18.86	21.83	152.249	23.77	PASS
142	5710(U-NII 2C)	MCS0	98	18.68	18.91	21.80	151.467	23.77	PASS
142	5710 (U-NII 3)	MCS0	98	11.82	11.15	14.51	28.235	29.85	PASS
151	5755	MCS0	95	20.11	20.29	23.21	209.471	29.85	PASS
159	5795	MCS0	95	20.12	20.36	23.25	211.444	29.85	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	108	14.98	31.477	23.98	PASS
58	5290	MCS0	107	14.76	29.923	23.98	PASS
106	5530	MCS0	105	13.92	24.660	23.98	PASS
122	5610	MCS0	121	19.62	91.622	23.98	PASS
138	5690(U-NII 2C)	MCS0	124	18.35	68.39	23.98	PASS
138	5690 (U-NII 3)	MCS0	124	10.50	11.22	30	PASS
155	5775	MCS0	118	17.14	51.761	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	108	15.08	32.211	23.98	PASS
58	5290	MCS0	107	14.83	30.409	23.98	PASS
106	5530	MCS0	106	14.11	25.763	23.98	PASS
122	5610	MCS0	121	19.78	95.060	23.98	PASS
138	5690(U-NII 2C)	MCS0	124	18.65	73.30	23.98	PASS
138	5690 (U-NII 3)	MCS0	124	9.51	8.93	30	PASS
155	5775	MCS0	118	17.28	53.456	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	85	14.47	15.67	18.12	64.888	23.73	PASS
58	5290	MCS0	84	14.76	14.92	17.85	60.968	23.72	PASS
106	5530	MCS0	76	13.55	14.42	17.02	50.316	23.77	PASS
122	5610	MCS0	95	17.88	18.24	21.07	128.057	23.77	PASS
138	5690(U-NII 2C)	MCS0	98	18.71	18.99	21.86	153.573	23.77	PASS
138	5690 (U-NII 3)	MCS0	98	10.86	9.85	13.39	21.844	29.85	PASS
155	5775	MCS0	83	17.14	17.27	20.22	105.094	29.85	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

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7.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G015	RF198	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G016	RF199	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G021	RF200	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

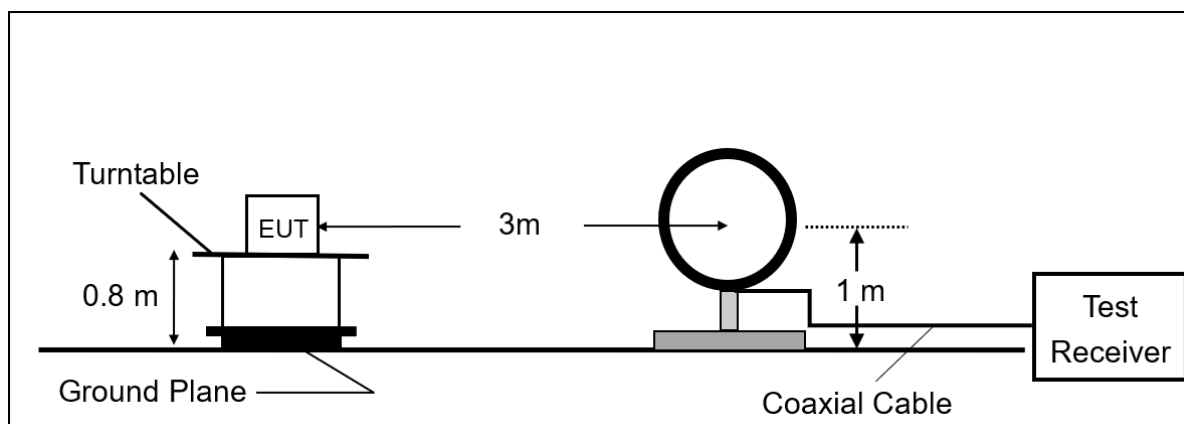
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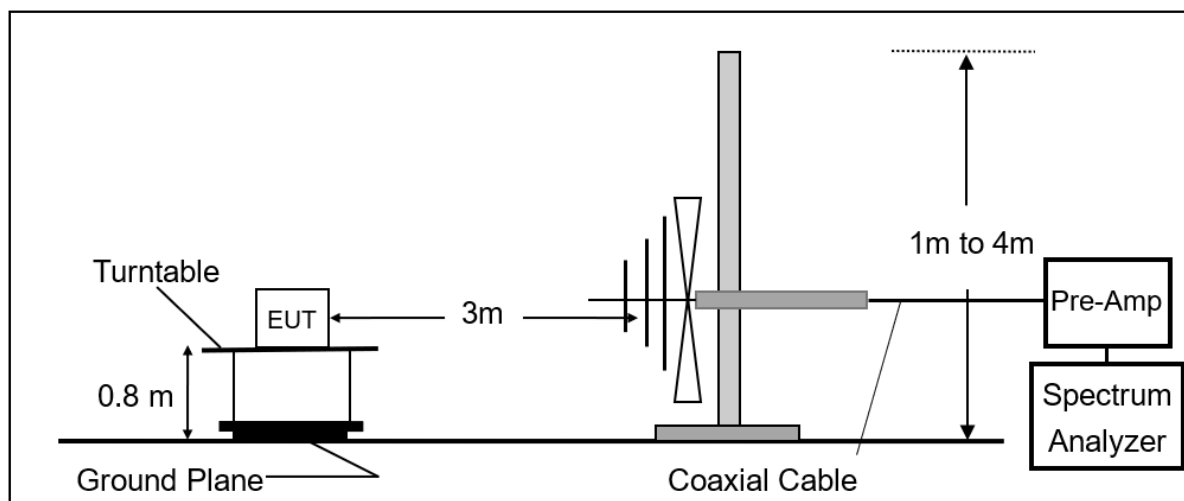
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7.3 Test SET-UP

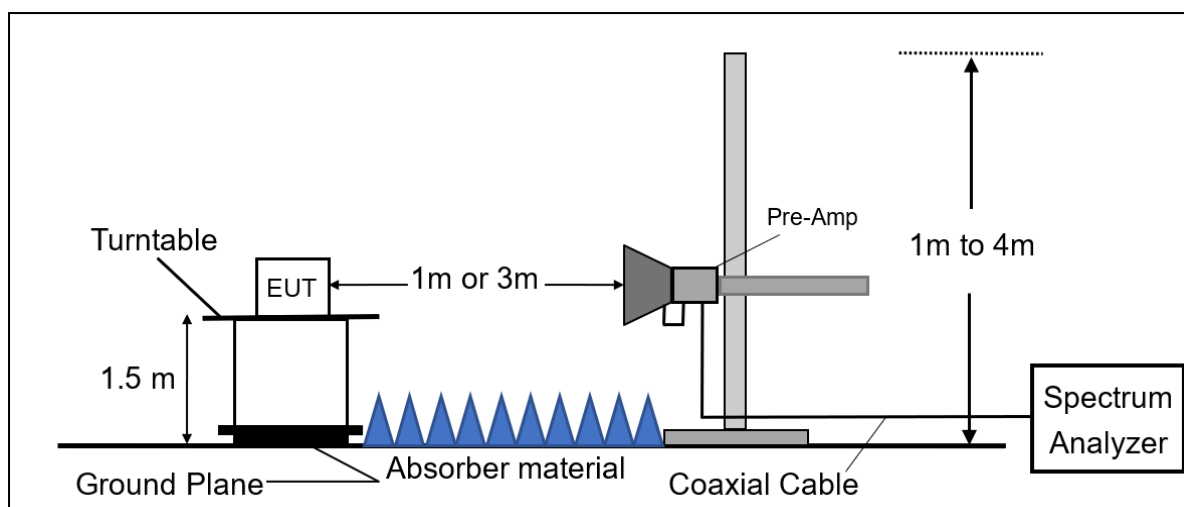
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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7.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

7.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) was not reported.

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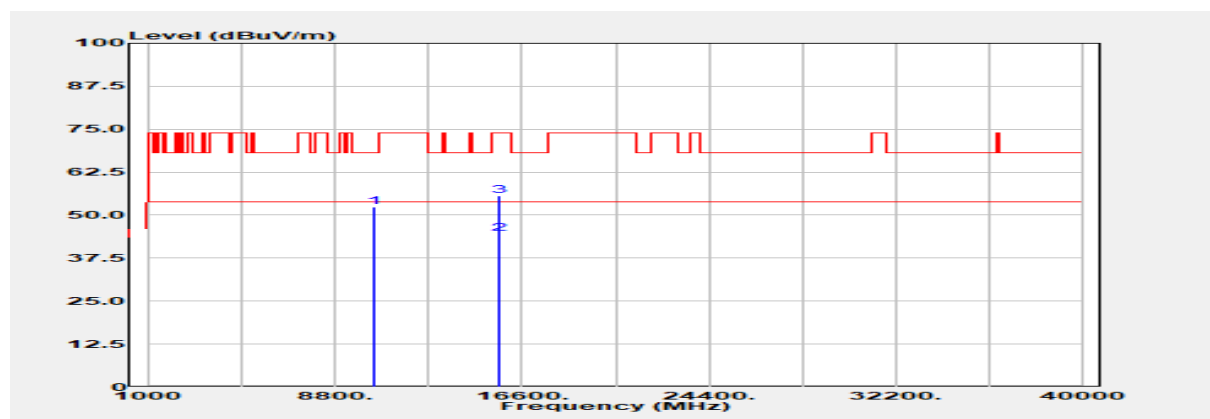
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Above 1GHz Worst-Case Data:

Report Number	:E2/2021/80036	Test Site	:SAC C
Operation Mode	:802.11a / Band 1	Test Date	:2021-08-09
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/54
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	29.84	22.54	52.39	68.20	-15.81
15660.000	Average	18.72	25.83	44.55	54.00	-9.45
15660.000	Peak	29.69	25.83	55.52	74.00	-18.48

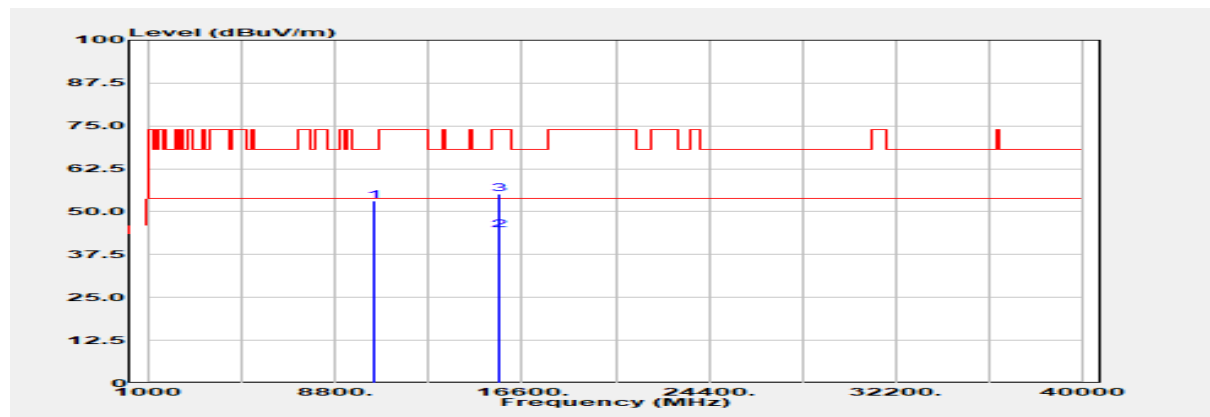
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	30.57	22.54	53.11	68.20	-15.09
15660.000	Average	18.70	25.83	44.53	54.00	-9.47
15660.000	Peak	29.24	25.83	55.07	74.00	-18.93

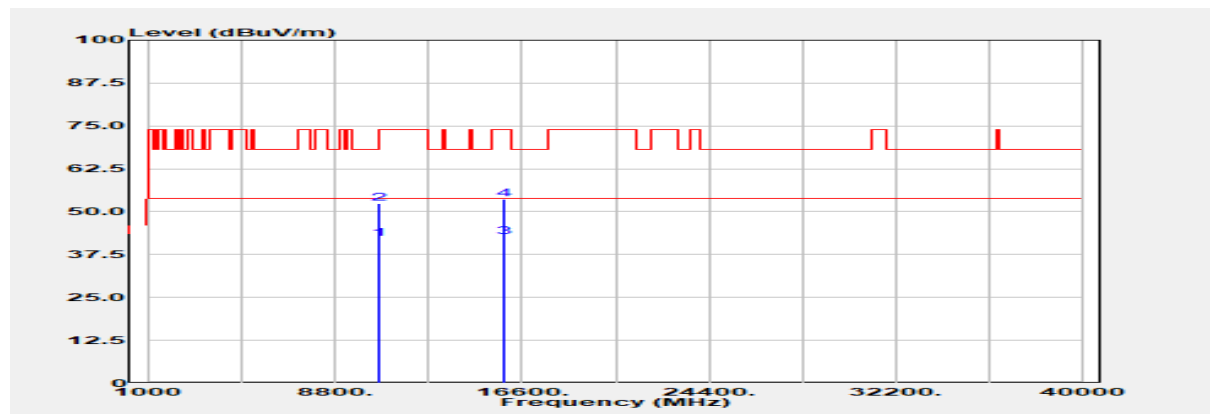
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	18.87	23.11	41.98	54.00	-12.02
10600.000	Peak	29.36	23.11	52.48	74.00	-21.52
15900.000	Average	18.76	23.84	42.60	54.00	-11.40
15900.000	Peak	29.71	23.84	53.54	74.00	-20.46

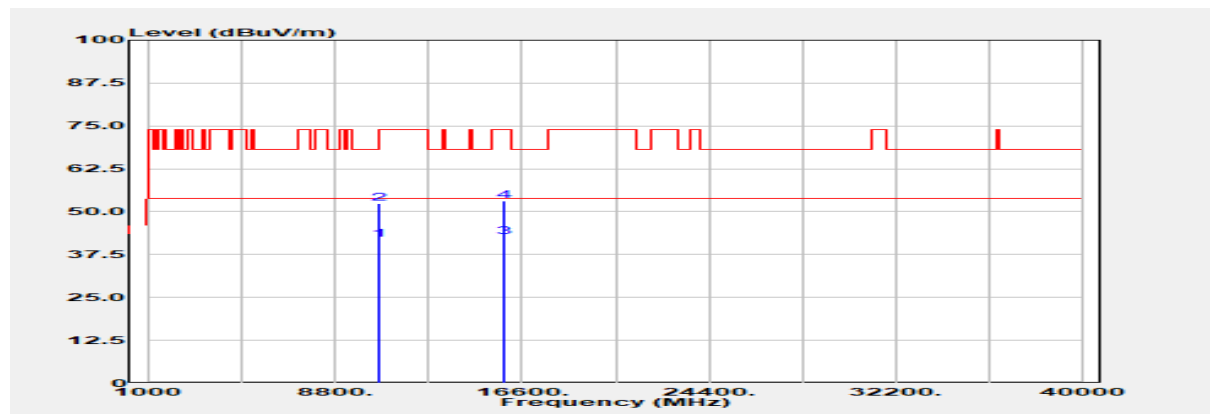
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	18.85	23.11	41.96	54.00	-12.04
10600.000	Peak	29.17	23.11	52.29	74.00	-21.71
15900.000	Average	18.74	23.84	42.58	54.00	-11.42
15900.000	Peak	29.24	23.84	53.08	74.00	-20.92

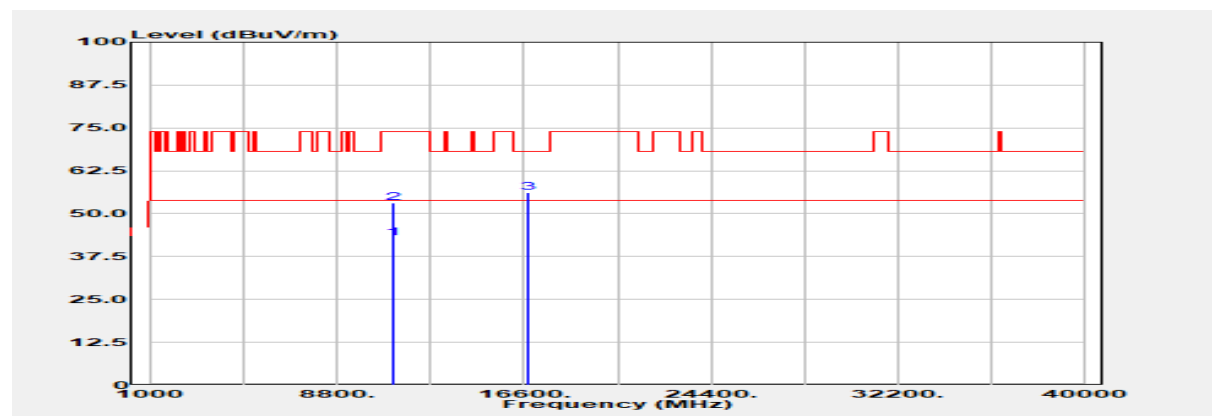
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5600 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11200.000	Average	19.34	23.53	42.87	54.00	-11.13
11200.000	Peak	29.48	23.53	53.01	74.00	-20.99
16800.000	Peak	29.47	26.72	56.19	68.20	-12.01

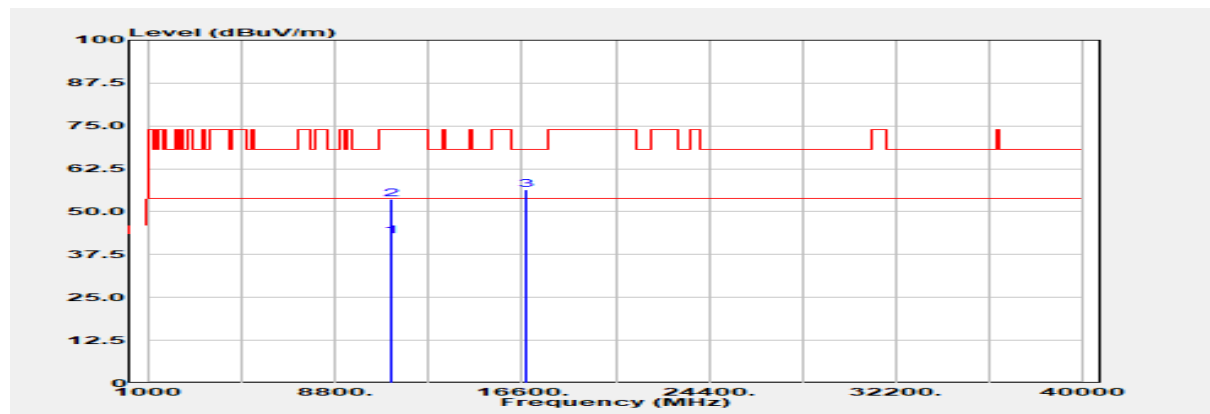
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5600 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11200.000	Average	19.33	23.53	42.86	54.00	-11.14
11200.000	Peak	30.21	23.53	53.75	74.00	-20.25
16800.000	Peak	29.58	26.72	56.30	68.20	-11.90

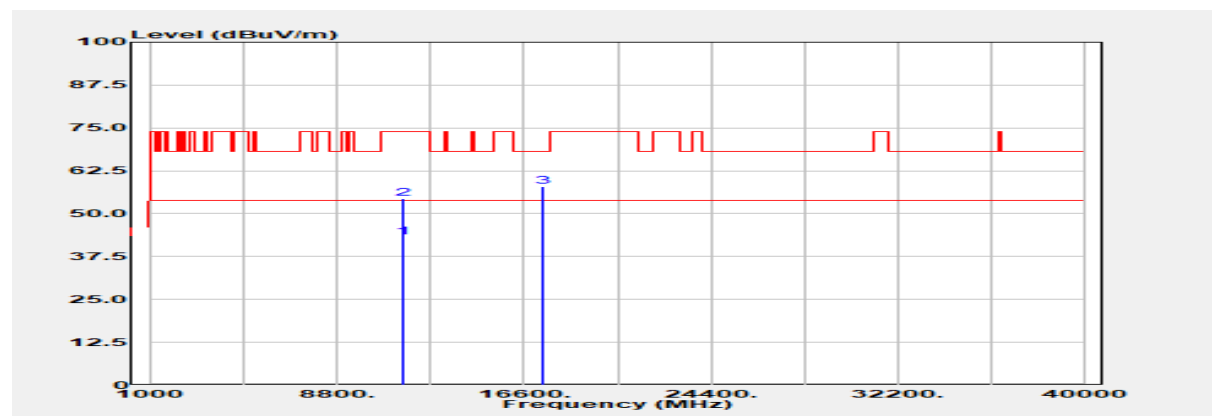
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	19.16	23.93	43.09	54.00	-10.91
11570.000	Peak	30.35	23.93	54.28	74.00	-19.72
17355.000	Peak	29.89	27.97	57.86	68.20	-10.34

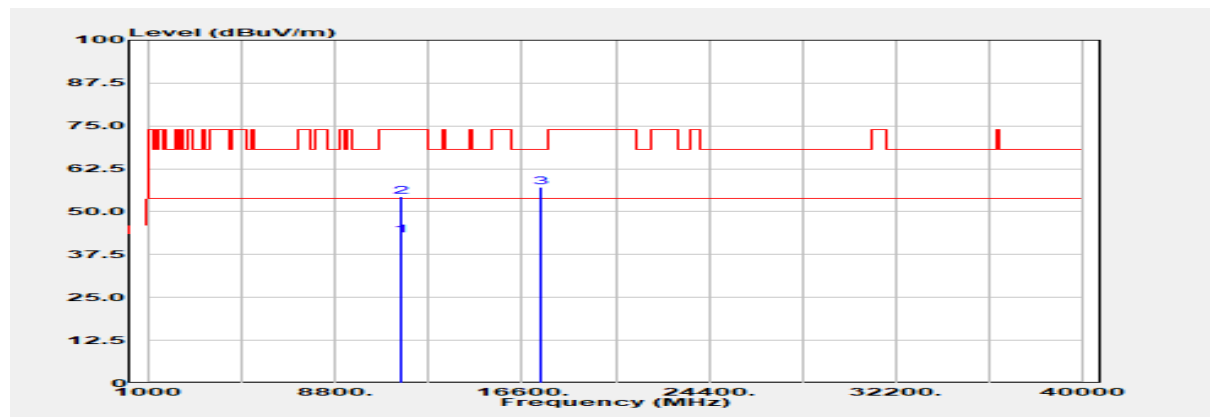
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.2/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	19.17	23.93	43.10	54.00	-10.90
11570.000	Peak	30.39	23.93	54.33	74.00	-19.67
17355.000	Peak	29.21	27.97	57.18	68.20	-11.02

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7.7.2 Band edge falling to restricted band

Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11a / Band 1

Test Date :2021-08-09

Test Frequency :5180 MHz

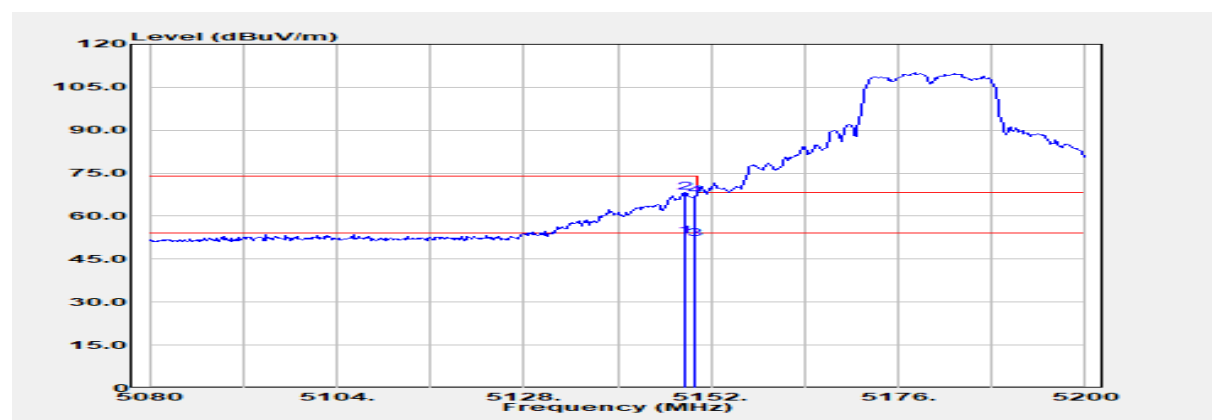
Temp./Humi. :22.9/61

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.654	Average	42.32	10.49	52.81	54.00	-1.19
5148.654	Peak	57.74	10.49	68.22	74.00	-5.78
5150.000	Average	41.39	10.50	51.89	54.00	-2.11
5150.000	Peak	56.49	10.50	66.99	74.00	-7.01

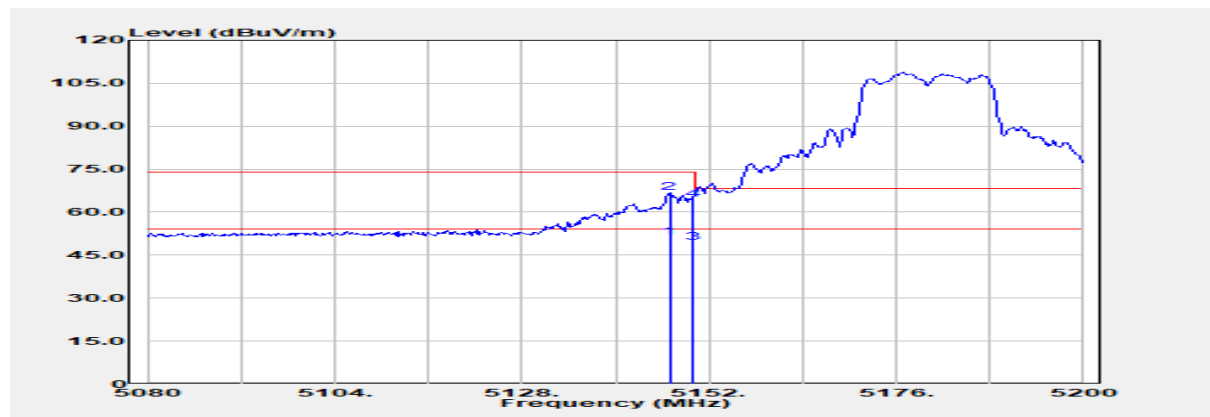
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :22.9/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.923	Average	40.62	10.47	51.09	54.00	-2.91
5146.923	Peak	56.36	10.47	66.83	74.00	-7.17
5150.000	Average	38.71	10.50	49.21	54.00	-4.79
5150.000	Peak	53.87	10.50	64.37	74.00	-9.63

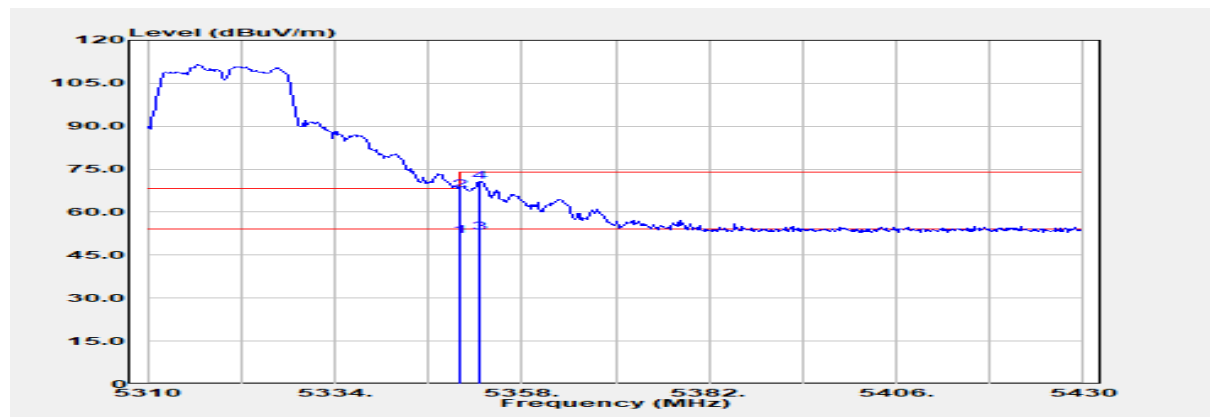
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :22.9/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	40.29	11.54	51.83	54.00	-2.17
5350.000	Peak	56.11	11.54	67.65	74.00	-6.35
5352.500	Average	41.34	11.56	52.90	54.00	-1.10
5352.500	Peak	59.05	11.56	70.61	74.00	-3.39

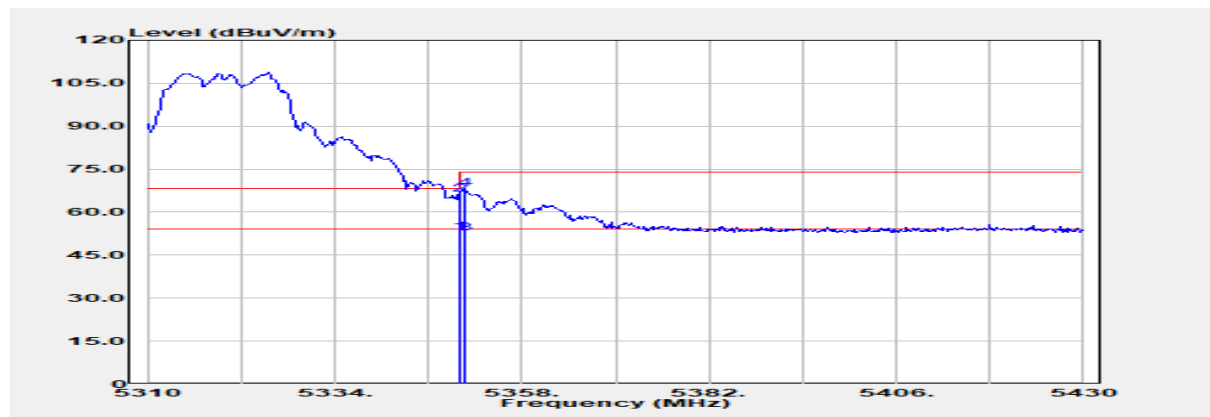
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :22.9/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.46	11.54	53.00	54.00	-1.00
5350.000	Peak	54.57	11.54	66.11	74.00	-7.89
5350.577	Average	41.22	11.54	52.76	54.00	-1.24
5350.577	Peak	56.67	11.54	68.21	74.00	-5.79

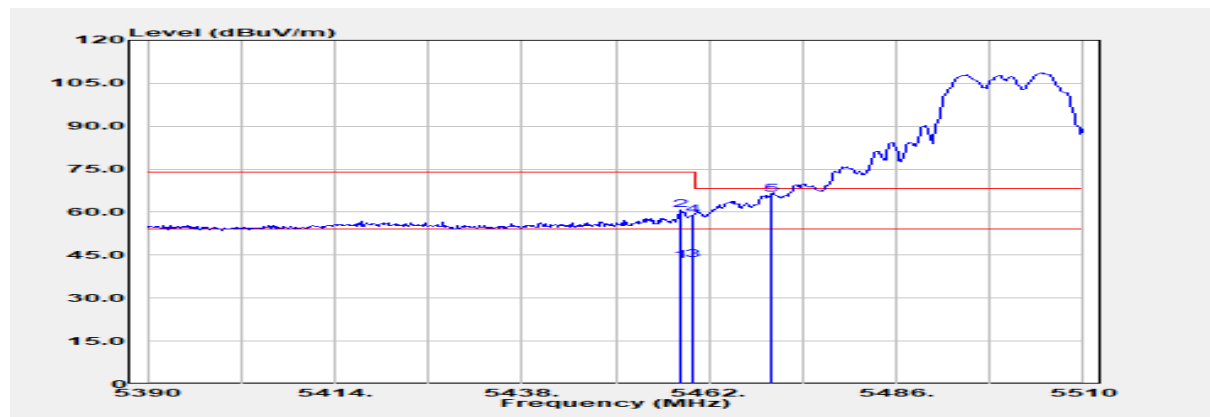
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :22.9/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5458.461	Average	31.28	11.74	43.02	54.00	-10.98
5458.461	Peak	48.89	11.74	60.63	74.00	-13.37
5460.000	Average	31.66	11.66	43.32	54.00	-10.68
5460.000	Peak	47.15	11.66	58.81	74.00	-15.19
5470.000	Peak	54.45	11.73	66.18	68.20	-2.02

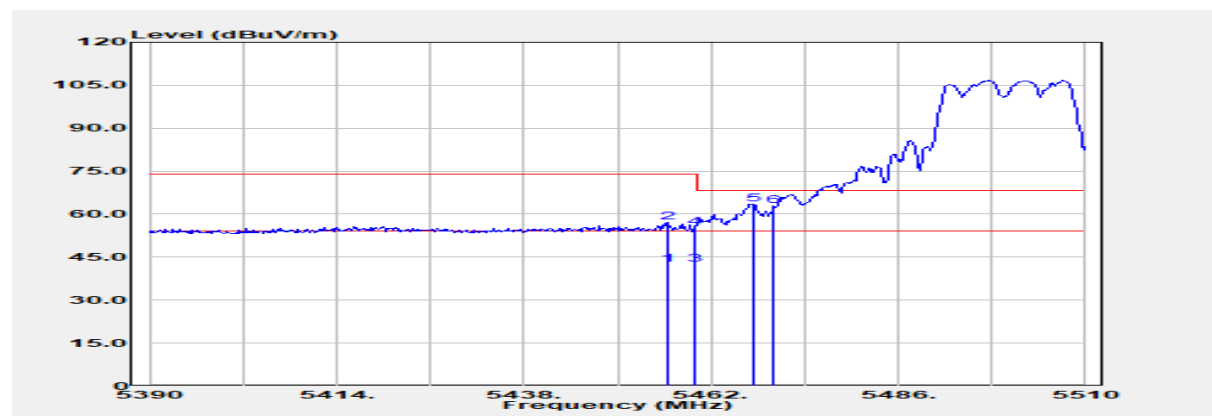
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :22.9/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.346	Average	30.51	11.86	42.37	54.00	-11.63
5456.346	Peak	45.24	11.86	57.10	74.00	-16.90
5460.000	Average	30.72	11.66	42.38	54.00	-11.62
5460.000	Peak	43.63	11.66	55.30	74.00	-18.70
5467.500	Peak	51.64	11.72	63.35	68.20	-4.85
5470.000	Peak	51.01	11.73	62.74	68.20	-5.46

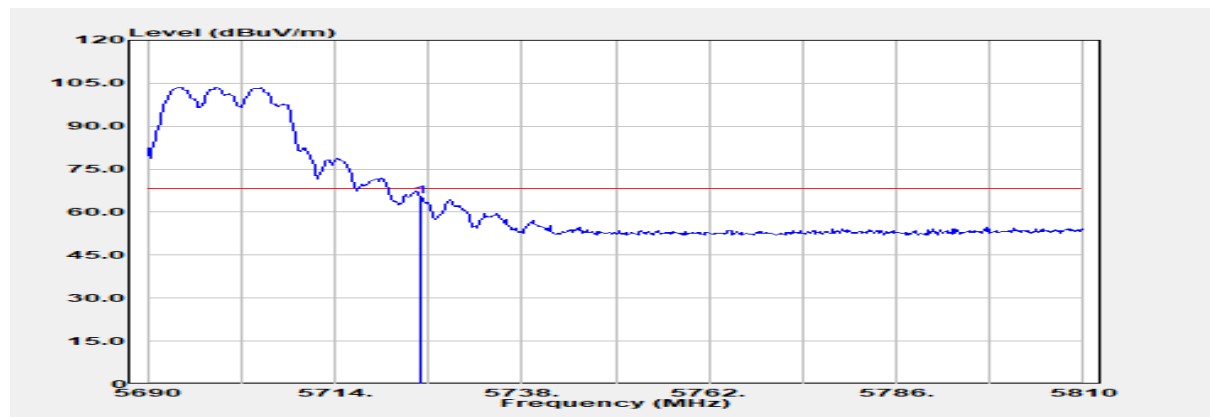
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	54.85	10.62	65.47	68.20	-2.73

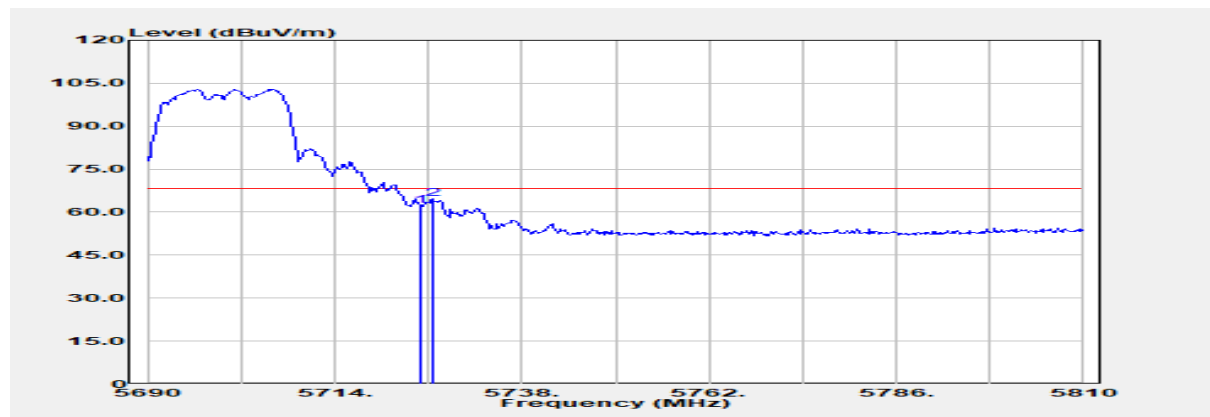
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	51.78	10.62	62.40	68.20	-5.80
5726.539	Peak	54.14	10.58	64.72	68.20	-3.48

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11a / Band 3-4

Test Date :2021-08-10

Test Frequency :5720 MHz

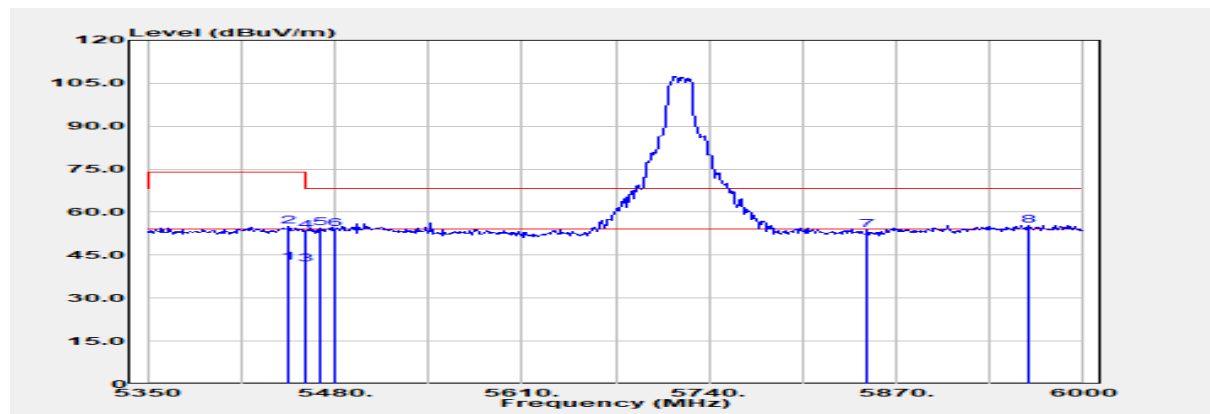
Temp./Humi. :23.1/56

Test Mode :BE CH 144

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5447.917	Average	30.16	12.14	42.30	54.00	-11.70
5447.917	Peak	42.77	12.14	54.91	74.00	-19.09
5460.000	Average	30.12	11.66	41.78	54.00	-12.22
5460.000	Peak	41.76	11.66	53.43	74.00	-20.57
5470.000	Peak	42.64	11.73	54.37	68.20	-13.83
5480.000	Peak	41.72	12.35	54.06	68.20	-14.14
5850.000	Peak	42.40	11.31	53.70	68.20	-14.50
5962.500	Peak	42.12	13.32	55.44	68.20	-12.76

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11a / Band 3-4

Test Date :2021-08-10

Test Frequency :5720 MHz

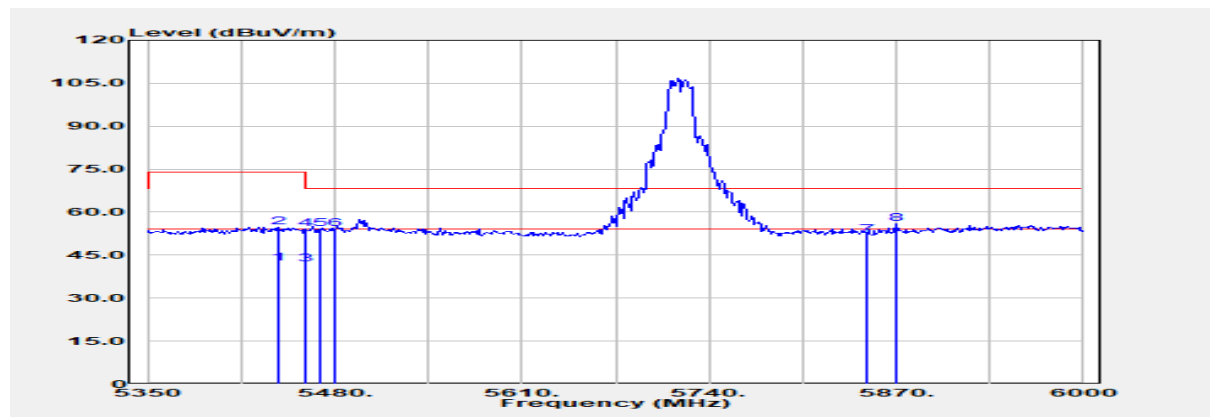
Temp./Humi. :23.1/56

Test Mode :BE CH 144

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5441.667	Average	30.07	12.00	42.07	54.00	-11.93
5441.667	Peak	42.84	12.00	54.84	74.00	-19.16
5460.000	Average	30.09	11.66	41.75	54.00	-12.25
5460.000	Peak	42.45	11.66	54.12	74.00	-19.88
5470.000	Peak	42.51	11.73	54.25	68.20	-13.95
5480.000	Peak	41.77	12.35	54.12	68.20	-14.08
5850.000	Peak	40.83	11.31	52.14	68.20	-16.06
5869.792	Peak	43.55	12.31	55.86	68.20	-12.34

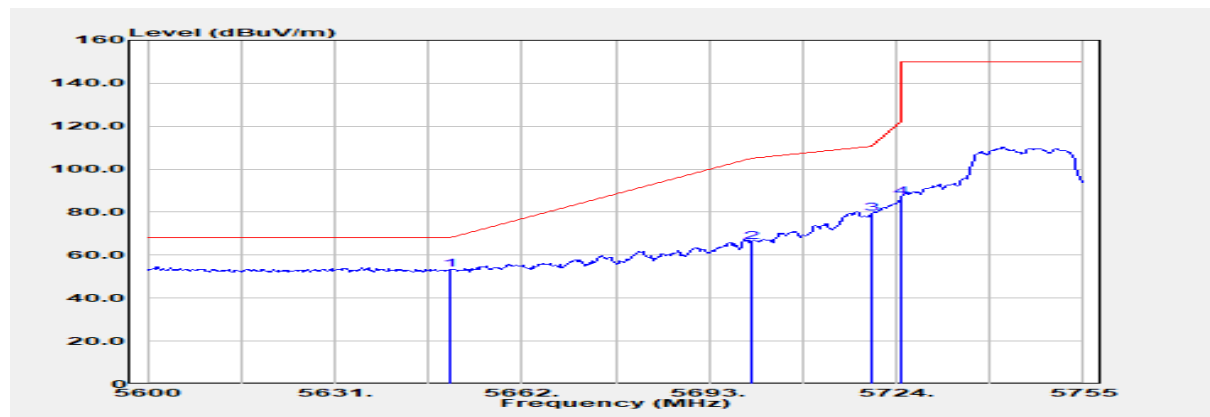
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	42.70	10.51	53.21	68.20	-14.99
5700.000	Peak	55.63	10.41	66.03	105.20	-39.17
5720.000	Peak	68.74	10.76	79.51	110.80	-31.29
5725.000	Peak	76.47	10.62	87.09	122.20	-35.11

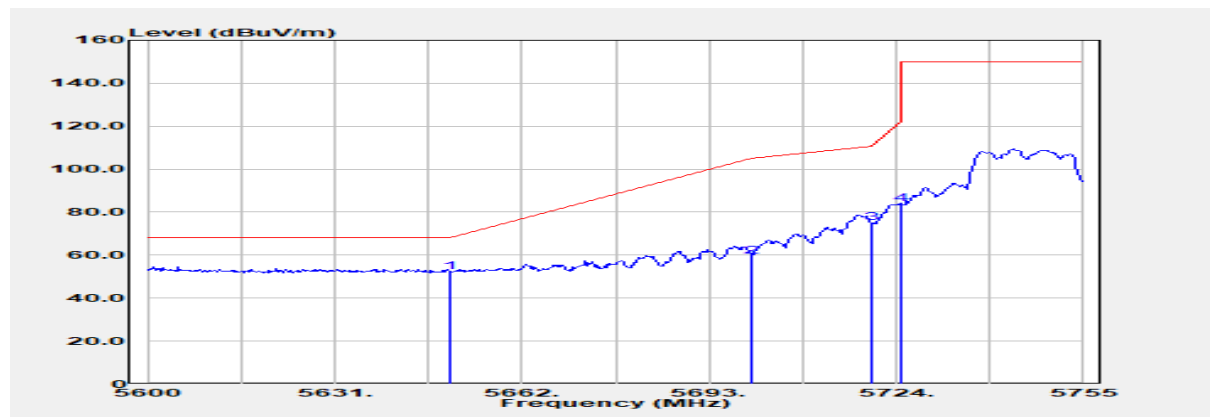
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	41.62	10.51	52.13	68.20	-16.07
5700.000	Peak	48.90	10.41	59.30	105.20	-45.90
5720.000	Peak	64.17	10.76	74.93	110.80	-35.87
5725.000	Peak	73.28	10.62	83.90	122.20	-38.30

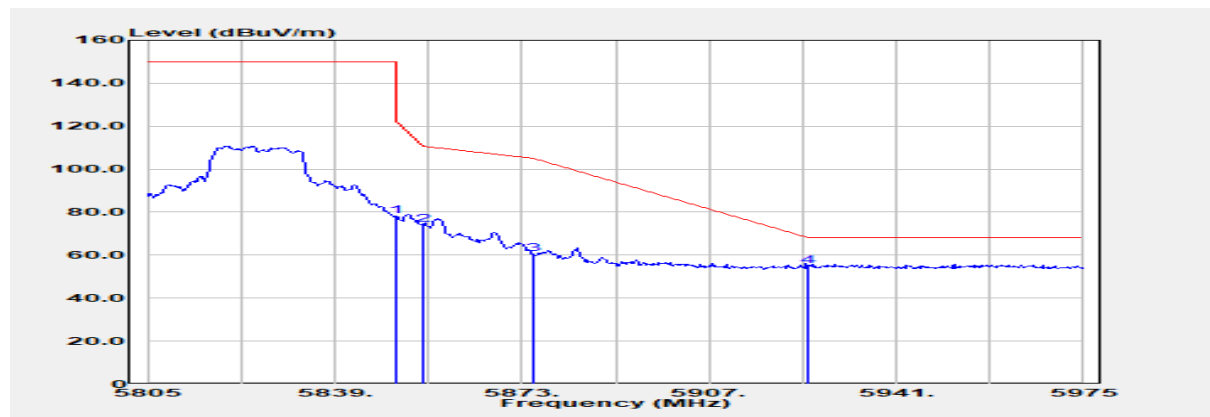
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	66.75	11.31	78.06	122.20	-44.14
5855.000	Peak	62.77	11.61	74.38	110.80	-36.42
5875.000	Peak	48.60	12.08	60.68	105.20	-44.52
5925.000	Peak	41.87	12.98	54.85	68.20	-13.35

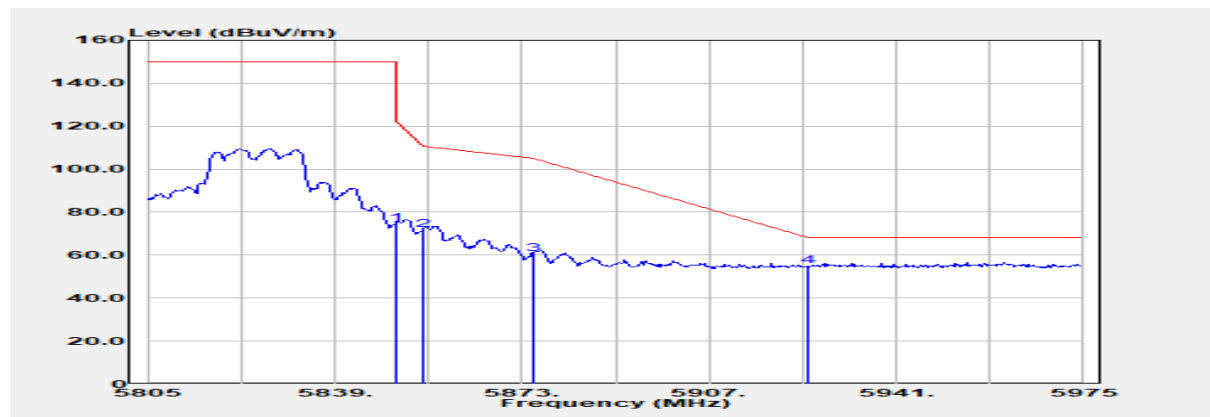
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Report Number :E2/2021/80036
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.1/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	63.31	11.31	74.62	122.20	-47.58
5855.000	Peak	60.23	11.61	71.84	110.80	-38.96
5875.000	Peak	48.67	12.08	60.75	105.20	-44.45
5925.000	Peak	42.02	12.98	55.01	68.20	-13.19

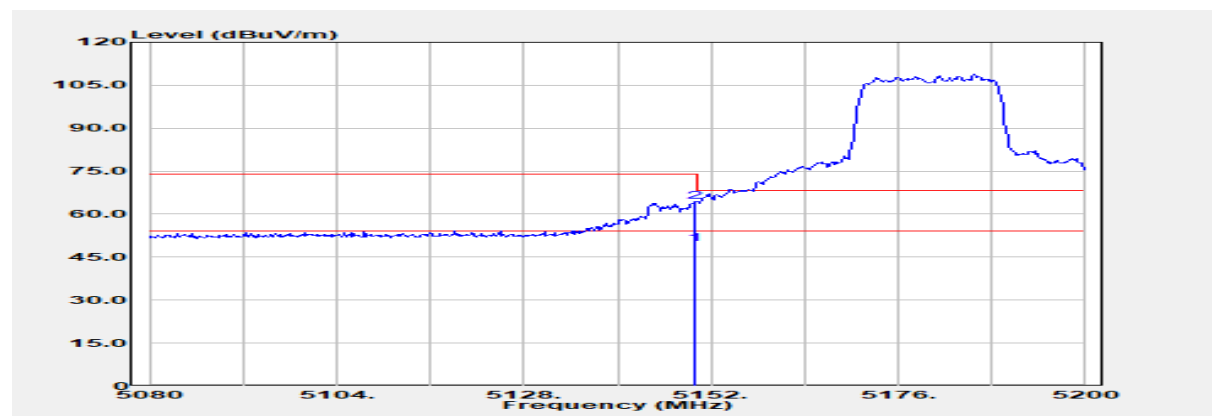
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.000	Average	39.26	10.50	49.76	54.00	-4.24
5150.000	Peak	53.75	10.50	64.25	74.00	-9.75

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac20 / Band 1

Test Date :2021-08-10

Test Frequency :5180 MHz

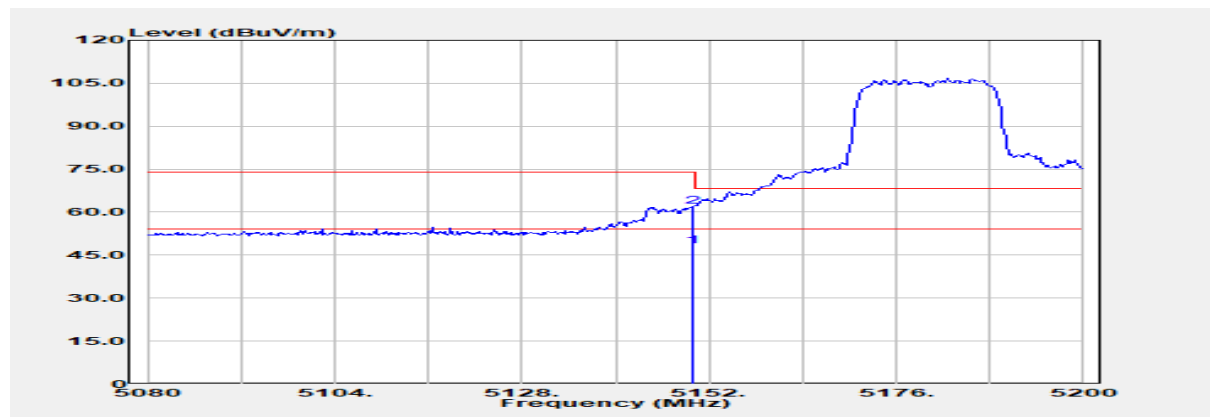
Temp./Humi. :24.0/57

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.000	Average	37.63	10.50	48.13	54.00	-5.87
5150.000	Peak	51.39	10.50	61.89	74.00	-12.11

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac20 / Band 2

Test Date :2021-08-10

Test Frequency :5320 MHz

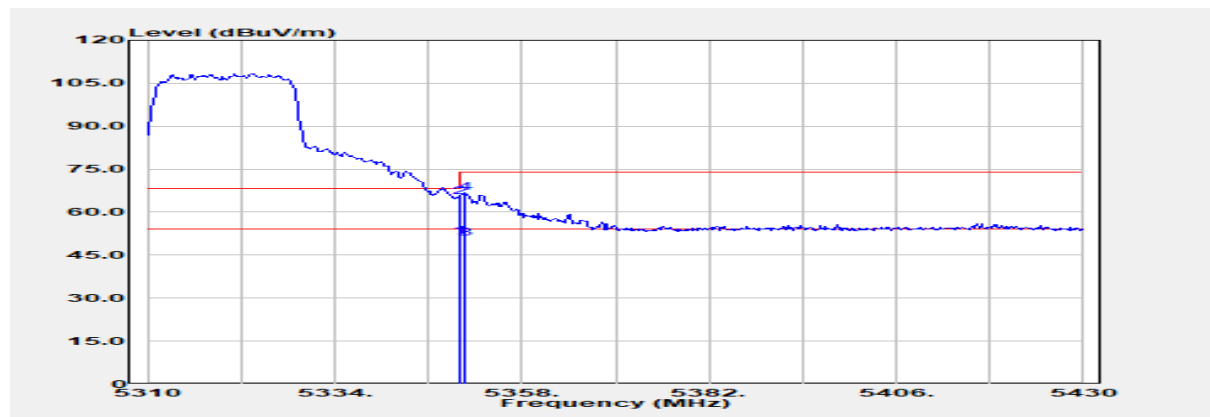
Temp./Humi. :24.0/57

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	39.83	11.54	51.37	54.00	-2.63
5350.000	Peak	53.70	11.54	65.24	74.00	-8.76
5350.769	Average	39.27	11.54	50.81	54.00	-3.19
5350.769	Peak	55.28	11.54	66.83	74.00	-7.17

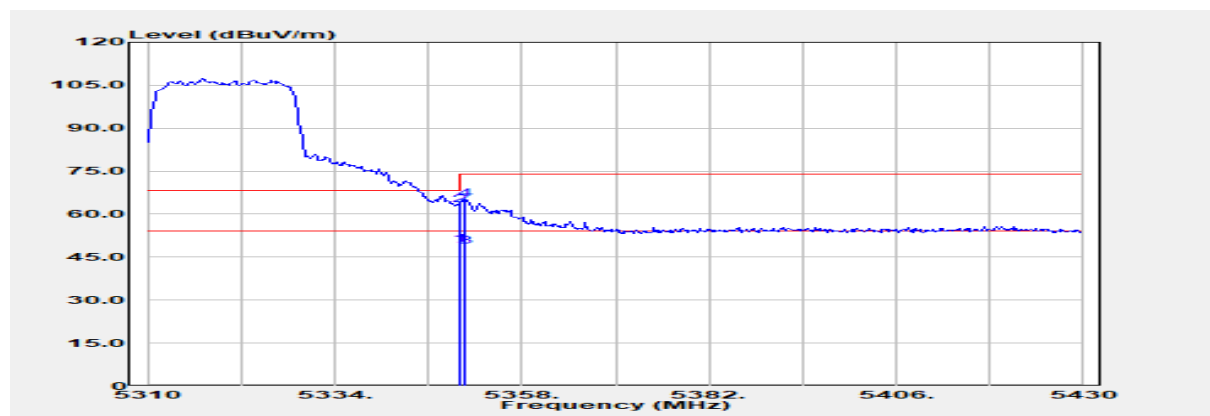
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	37.77	11.54	49.31	54.00	-4.69
5350.000	Peak	51.60	11.54	63.14	74.00	-10.86
5350.769	Average	37.23	11.54	48.77	54.00	-5.23
5350.769	Peak	53.77	11.54	65.31	74.00	-8.69

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac20 / Band 3

Test Date :2021-08-10

Test Frequency :5500 MHz

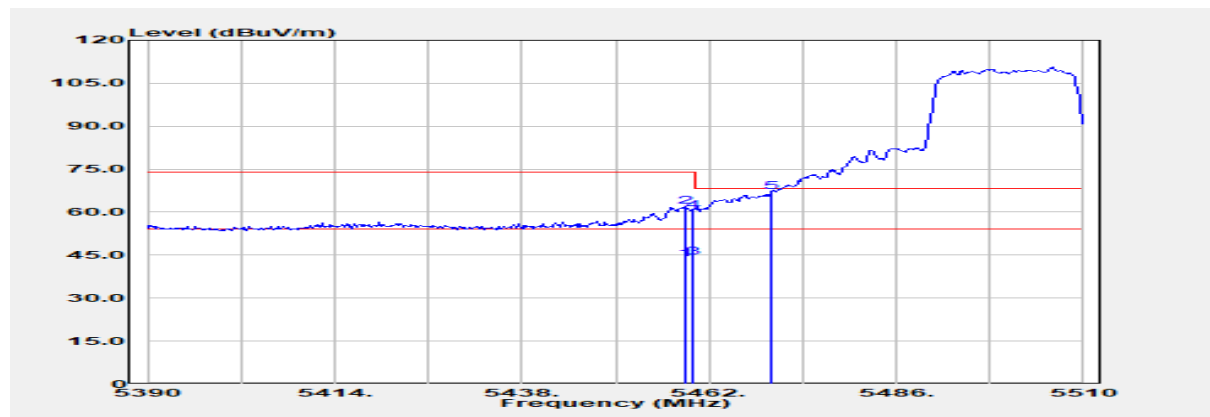
Temp./Humi. :24.0/57

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5458.846	Average	31.97	11.72	43.69	54.00	-10.31
5458.846	Peak	50.22	11.72	61.94	74.00	-12.06
5460.000	Average	32.46	11.66	44.12	54.00	-9.88
5460.000	Peak	48.66	11.66	60.32	74.00	-13.68
5470.000	Peak	55.38	11.73	67.11	68.20	-1.09

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac20 / Band 3

Test Date :2021-08-10

Test Frequency :5500 MHz

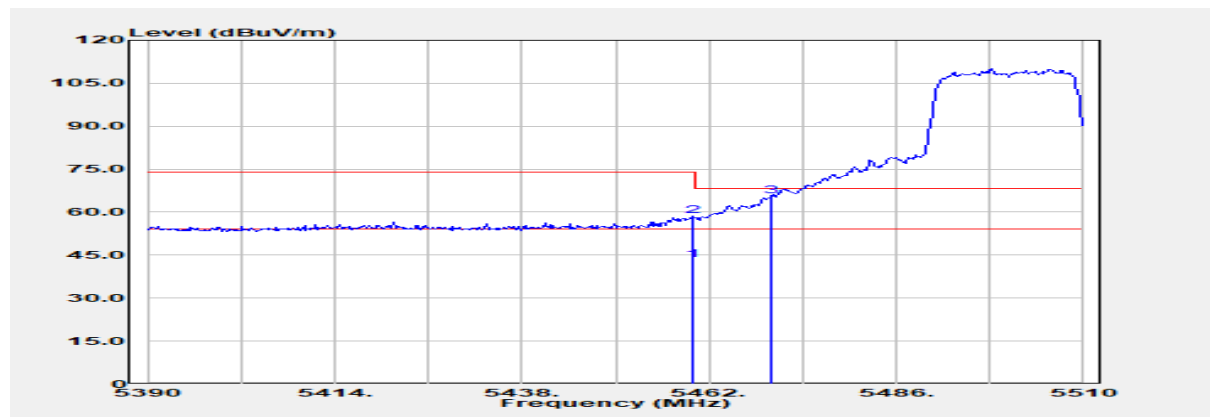
Temp./Humi. :24.0/57

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.000	Average	31.57	11.66	43.23	54.00	-10.77
5460.000	Peak	47.10	11.66	58.76	74.00	-15.24
5470.000	Peak	53.81	11.73	65.54	68.20	-2.66

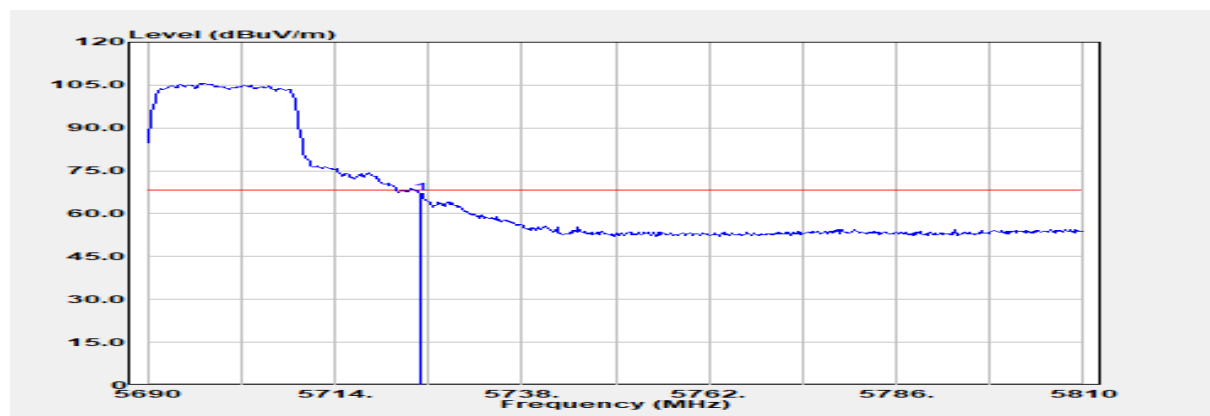
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	56.54	10.62	67.16	68.20	-1.04

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac20 / Band 3

Test Date :2021-08-10

Test Frequency :5700 MHz

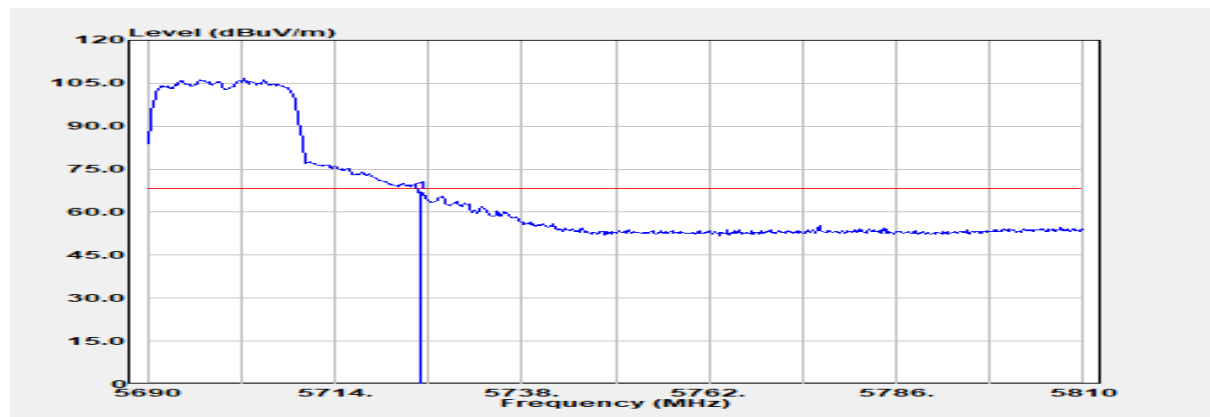
Temp./Humi. :24.0/57

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	56.38	10.62	67.01	68.20	-1.19

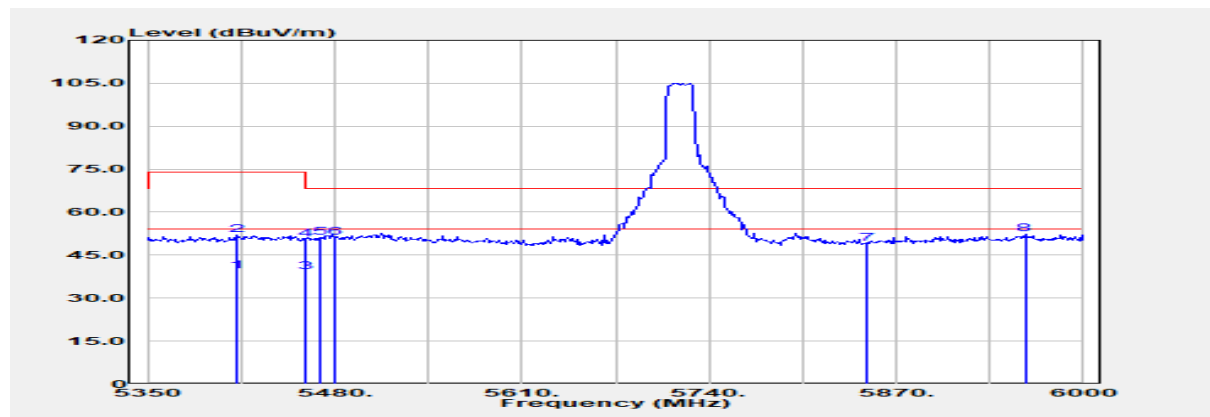
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH 144
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5411.458	Average	27.53	11.80	39.33	54.00	-14.67
5411.458	Peak	40.17	11.80	51.97	74.00	-22.03
5460.000	Average	27.55	11.66	39.21	54.00	-14.79
5460.000	Peak	38.73	11.66	50.40	74.00	-23.60
5470.000	Peak	39.33	11.73	51.06	68.20	-17.14
5480.000	Peak	38.86	12.35	51.21	68.20	-16.99
5850.000	Peak	37.80	11.31	49.11	68.20	-19.09
5959.375	Peak	38.83	13.46	52.29	68.20	-15.91

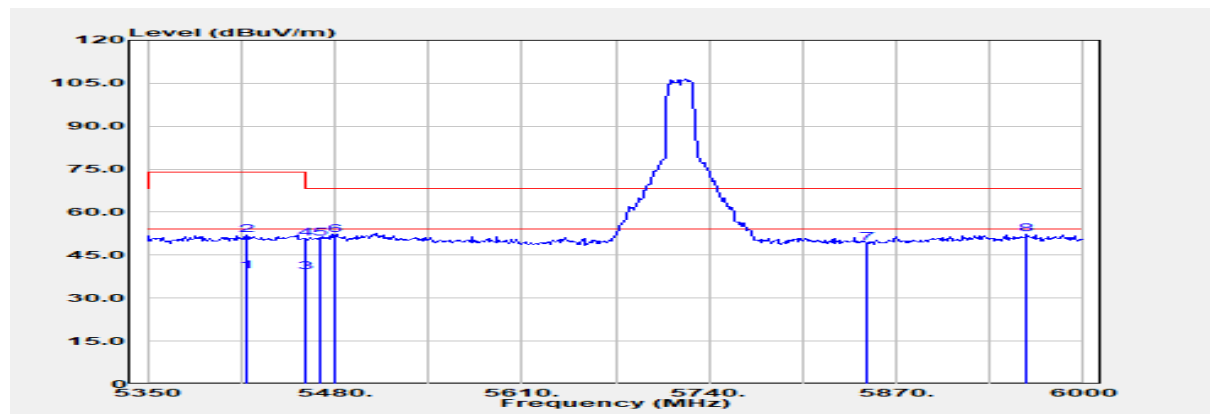
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH 144
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5418.750	Average	27.31	12.16	39.47	54.00	-14.53
5418.750	Peak	39.94	12.16	52.10	74.00	-21.90
5460.000	Average	27.44	11.66	39.10	54.00	-14.90
5460.000	Peak	39.09	11.66	50.76	74.00	-23.24
5470.000	Peak	38.97	11.73	50.71	68.20	-17.49
5480.000	Peak	39.63	12.35	51.97	68.20	-16.23
5850.000	Peak	37.87	11.31	49.18	68.20	-19.02
5960.417	Peak	38.95	13.47	52.42	68.20	-15.78

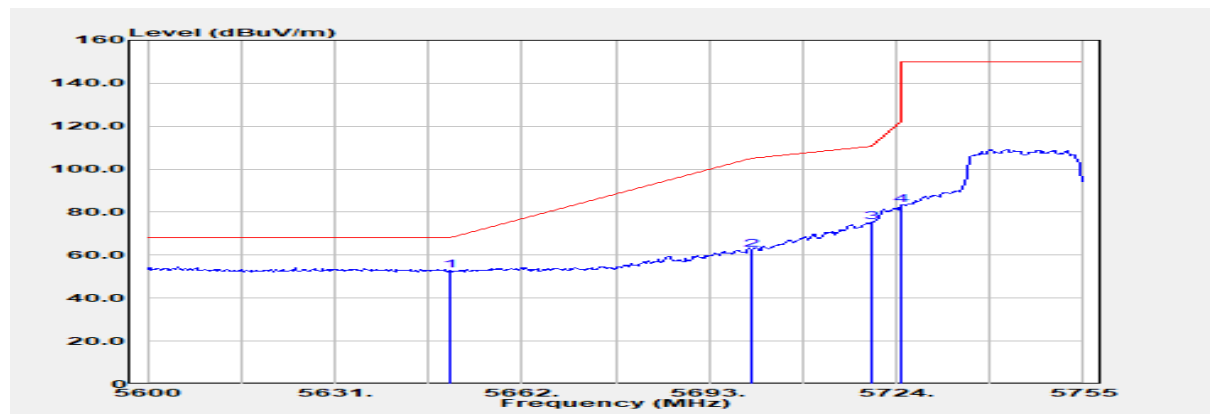
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	42.33	10.51	52.84	68.20	-15.36
5700.000	Peak	52.20	10.41	62.60	105.20	-42.60
5720.000	Peak	64.52	10.76	75.28	110.80	-35.52
5725.000	Peak	72.97	10.62	83.60	122.20	-38.60

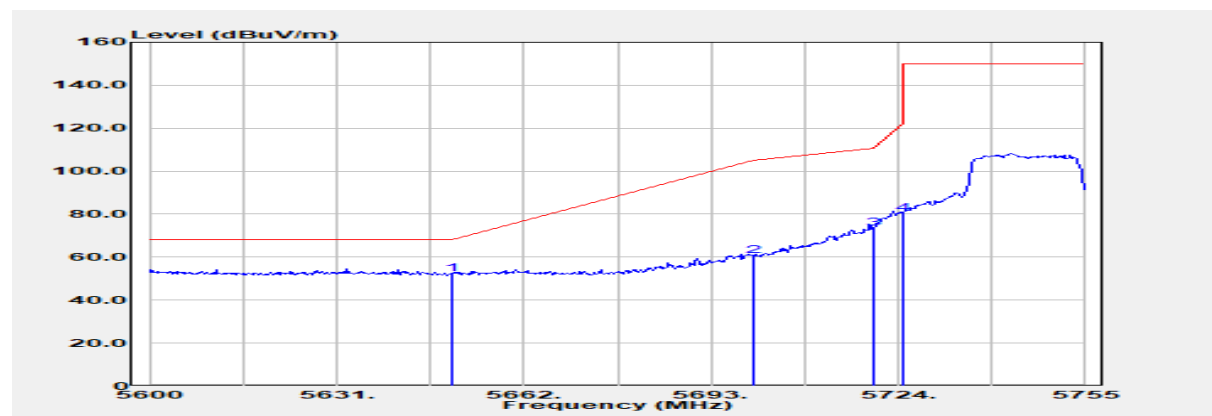
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	41.61	10.51	52.11	68.20	-16.09
5700.000	Peak	50.17	10.41	60.58	105.20	-44.62
5720.000	Peak	62.79	10.76	73.55	110.80	-37.25
5725.000	Peak	69.57	10.62	80.19	122.20	-42.01

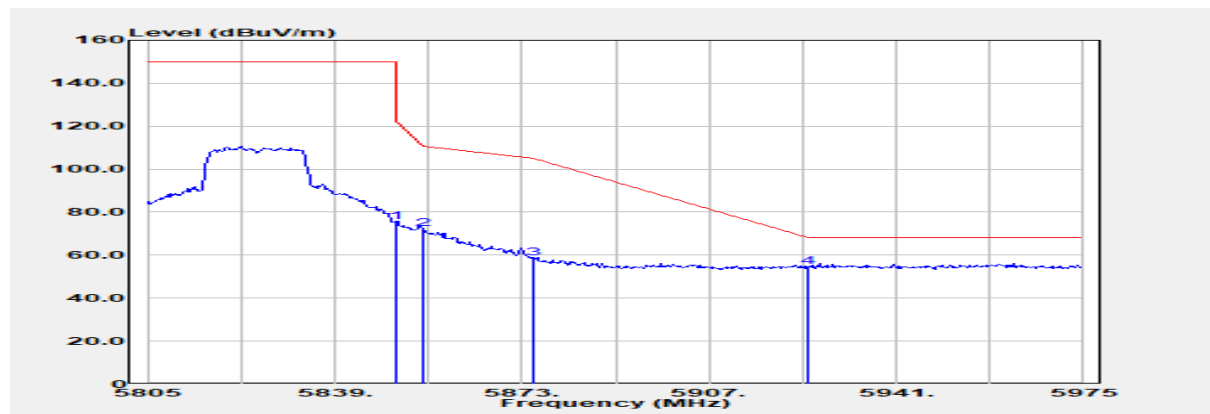
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	64.13	11.31	75.43	122.20	-46.77
5855.000	Peak	60.47	11.61	72.08	110.80	-38.72
5875.000	Peak	46.36	12.08	58.44	105.20	-46.76
5925.000	Peak	41.46	12.98	54.44	68.20	-13.76

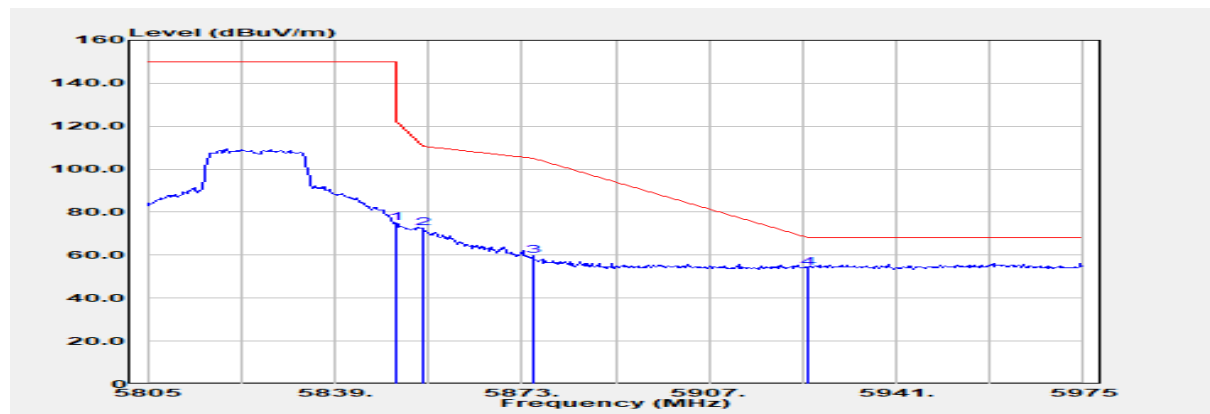
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Report Number :E2/2021/80036
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :24.0/57
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	63.81	11.31	75.11	122.20	-47.09
5855.000	Peak	60.86	11.61	72.47	110.80	-38.33
5875.000	Peak	47.78	12.08	59.86	105.20	-45.34
5925.000	Peak	41.16	12.98	54.14	68.20	-14.06

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 1

Test Date :2021-08-10

Test Frequency :5190 MHz

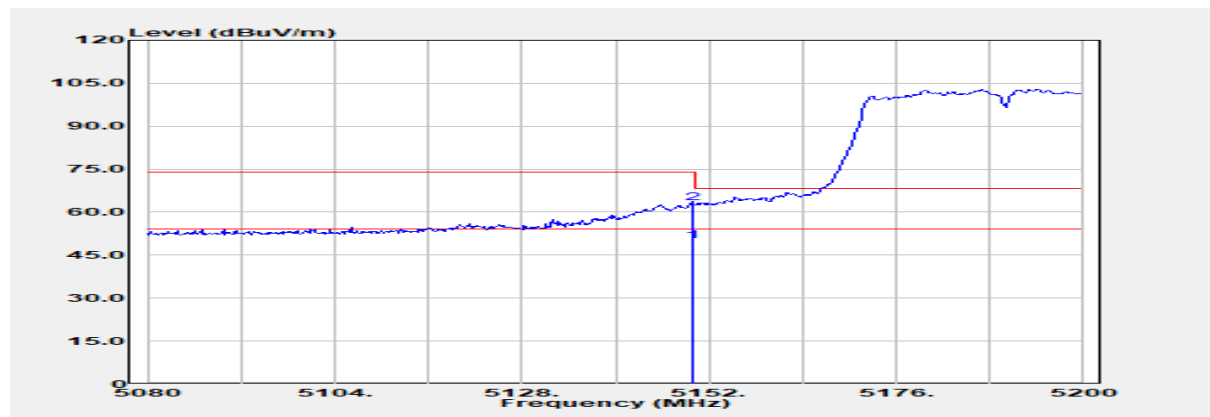
Temp./Humi. :25.3/50

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.000	Average	39.28	10.50	49.78	54.00	-4.22
5150.000	Peak	52.80	10.50	63.30	74.00	-10.70

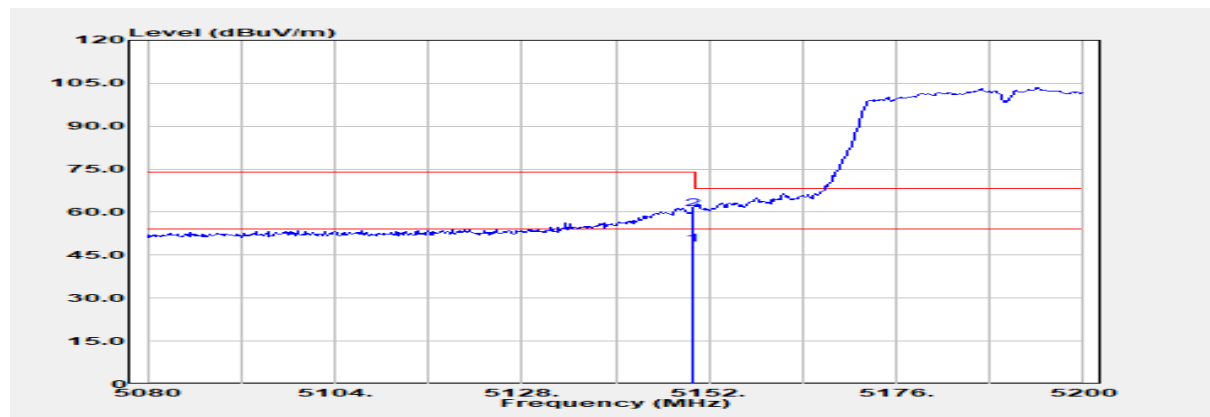
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Report Number :E2/2021/80036
 Operation Mode :802.11ac40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :25.3/50
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	38.10	10.50	48.60	54.00	-5.40
5150.000	Peak	50.54	10.50	61.04	74.00	-12.96

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 2

Test Date :2021-08-10

Test Frequency :5310 MHz

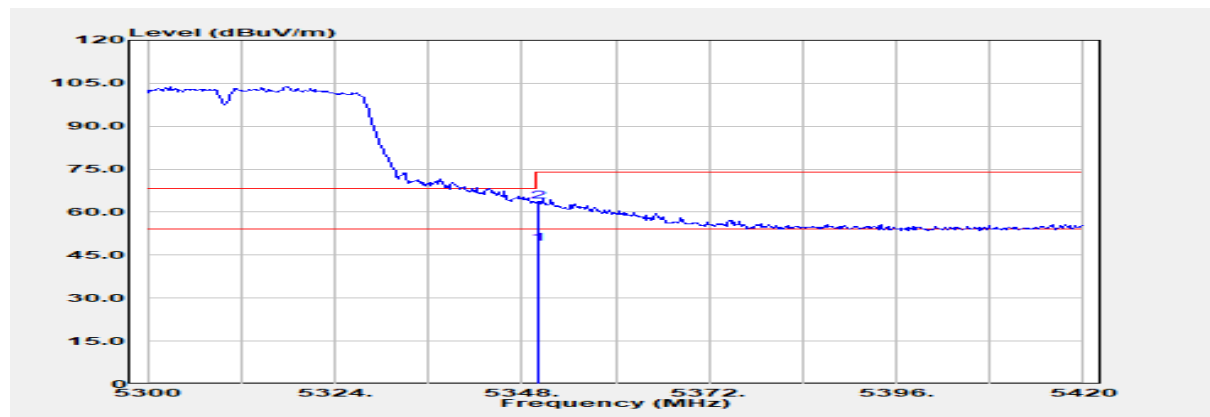
Temp./Humi. :25.3/50

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	37.51	11.54	49.05	54.00	-4.95
5350.000	Peak	52.23	11.54	63.77	74.00	-10.23

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 2

Test Date :2021-08-10

Test Frequency :5310 MHz

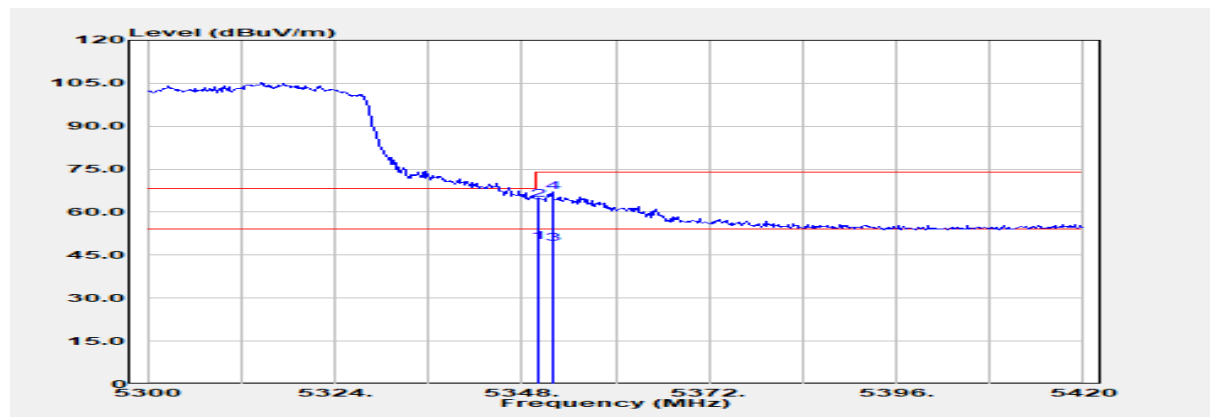
Temp./Humi. :25.3/50

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	38.11	11.54	49.65	54.00	-4.35
5350.000	Peak	52.87	11.54	64.41	74.00	-9.59
5351.923	Average	37.40	11.56	48.96	54.00	-5.04
5351.923	Peak	55.44	11.56	66.99	74.00	-7.01

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-10

Test Frequency :5510 MHz

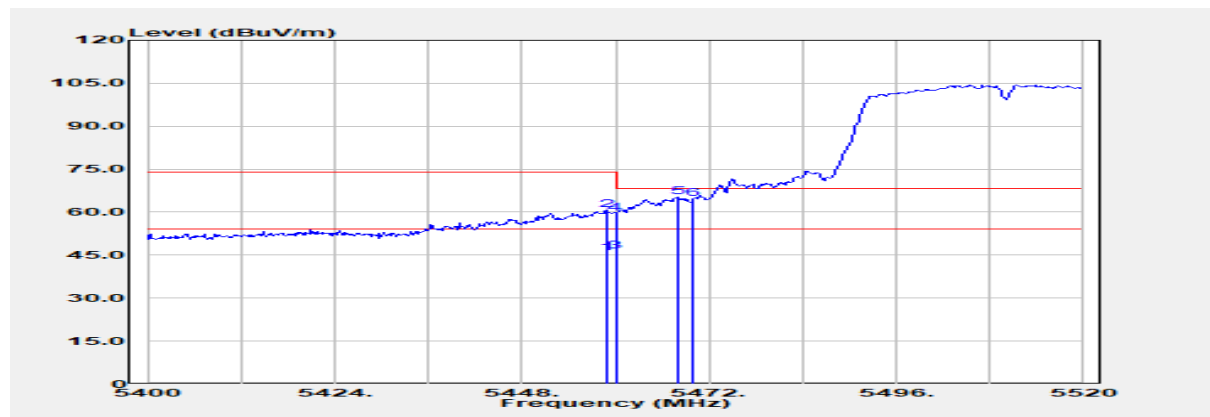
Temp./Humi. :25.3/50

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.846	Average	34.03	11.72	45.75	54.00	-8.25
5458.846	Peak	49.02	11.72	60.74	74.00	-13.26
5460.000	Average	34.63	11.66	46.29	54.00	-7.71
5460.000	Peak	47.99	11.66	59.65	74.00	-14.35
5467.885	Peak	53.65	11.72	65.36	68.20	-2.84
5470.000	Peak	53.00	11.73	64.73	68.20	-3.47

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-10

Test Frequency :5510 MHz

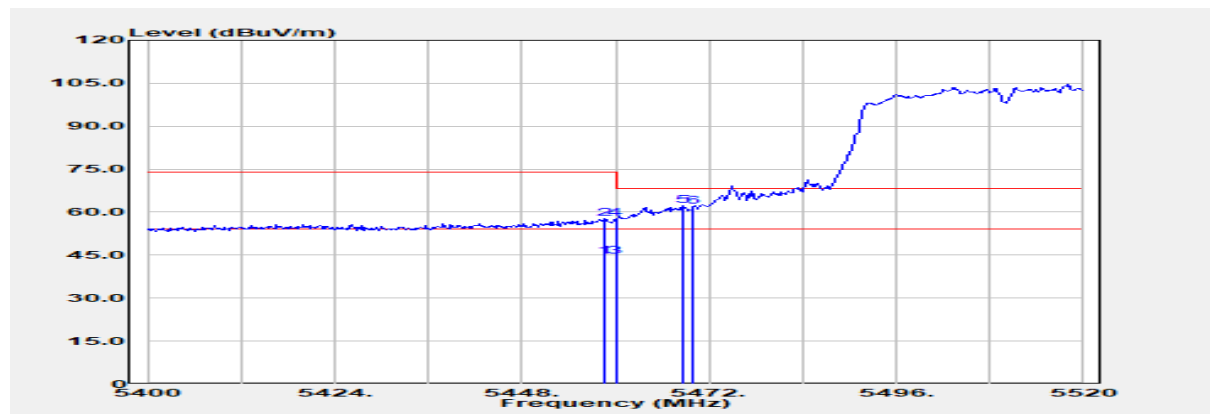
Temp./Humi. :25.3/50

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.461	Average	32.63	11.74	44.37	54.00	-9.63
5458.461	Peak	46.04	11.74	57.79	74.00	-16.21
5460.000	Average	32.82	11.66	44.48	54.00	-9.52
5460.000	Peak	46.00	11.66	57.66	74.00	-16.34
5468.654	Peak	50.50	11.72	62.23	68.20	-5.97
5470.000	Peak	50.28	11.73	62.02	68.20	-6.18

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-10

Test Frequency :5670 MHz

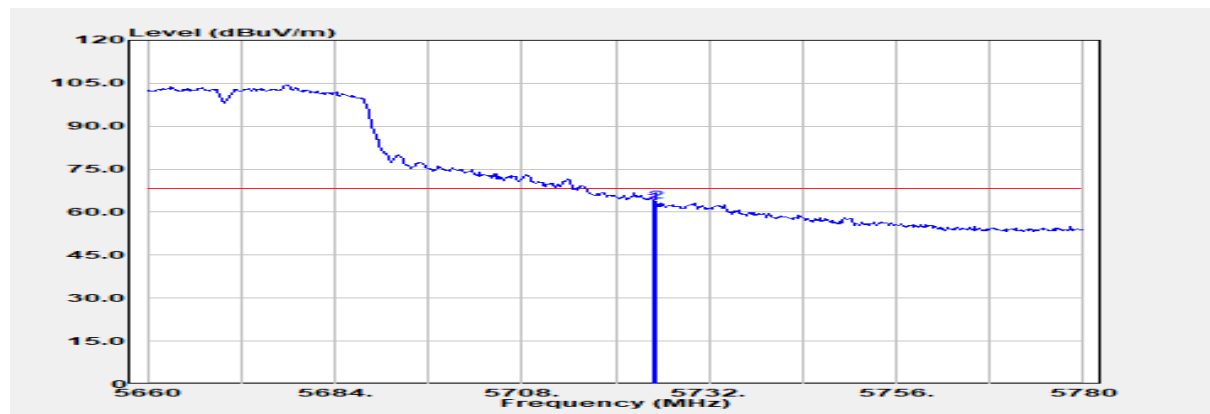
Temp./Humi. :25.1/54

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.63	10.62	63.25	68.20	-4.95
5725.192	Peak	53.21	10.62	63.82	68.20	-4.38

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-10

Test Frequency :5670 MHz

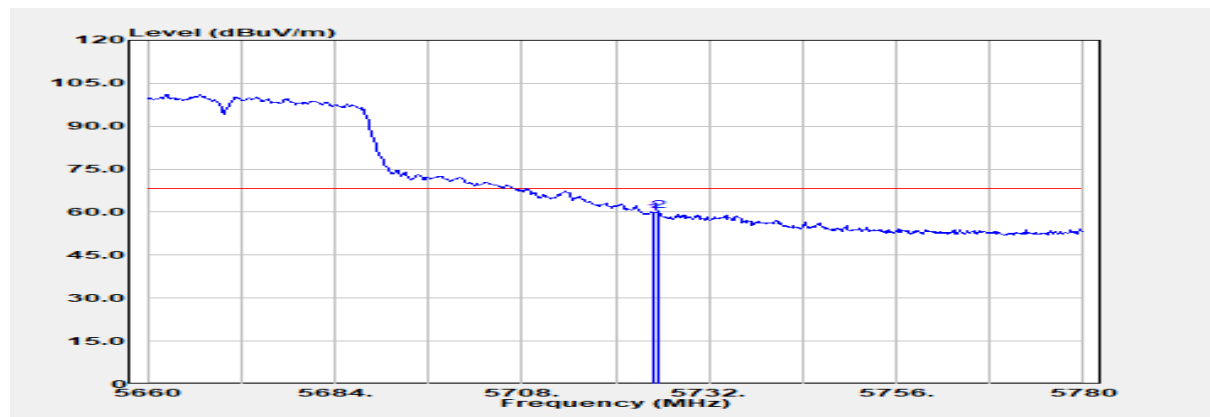
Temp./Humi. :25.1/54

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	48.96	10.62	59.58	68.20	-8.62
5725.577	Peak	49.73	10.60	60.34	68.20	-7.86

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 3-4

Test Date :2021-08-10

Test Frequency :5710 MHz

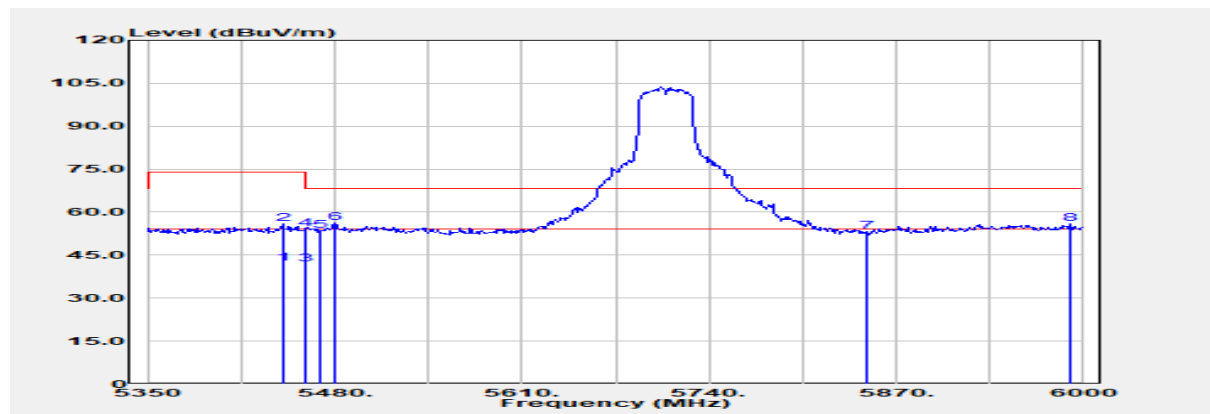
Temp./Humi. :25.1/54

Test Mode :BE CH 142

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5443.750	Average	30.11	12.05	42.16	54.00	-11.84
5443.750	Peak	43.95	12.05	56.00	74.00	-18.00
5460.000	Average	30.23	11.66	41.89	54.00	-12.11
5460.000	Peak	42.35	11.66	54.02	74.00	-19.98
5470.000	Peak	41.76	11.73	53.49	68.20	-14.71
5480.000	Peak	43.93	12.35	56.28	68.20	-11.92
5850.000	Peak	41.81	11.31	53.11	68.20	-15.09
5991.667	Peak	42.66	13.33	56.00	68.20	-12.20

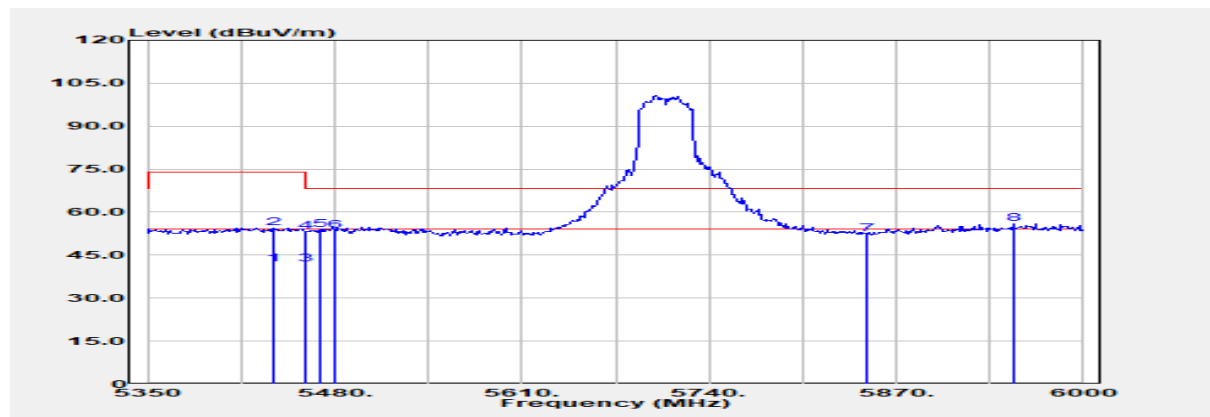
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Report Number :E2/2021/80036
 Operation Mode :802.11ac40 / Band 3-4
 Test Frequency :5710 MHz
 Test Mode :BE CH 142
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :25.1/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5437.500	Average	30.01	11.85	41.86	54.00	-12.14
5437.500	Peak	42.63	11.85	54.48	74.00	-19.52
5460.000	Average	30.07	11.66	41.73	54.00	-12.27
5460.000	Peak	41.64	11.66	53.31	74.00	-20.69
5470.000	Peak	42.05	11.73	53.78	68.20	-14.42
5480.000	Peak	41.06	12.35	53.41	68.20	-14.79
5850.000	Peak	40.93	11.31	52.24	68.20	-15.96
5951.042	Peak	42.96	13.00	55.96	68.20	-12.24

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 4

Test Date :2021-08-10

Test Frequency :5755 MHz

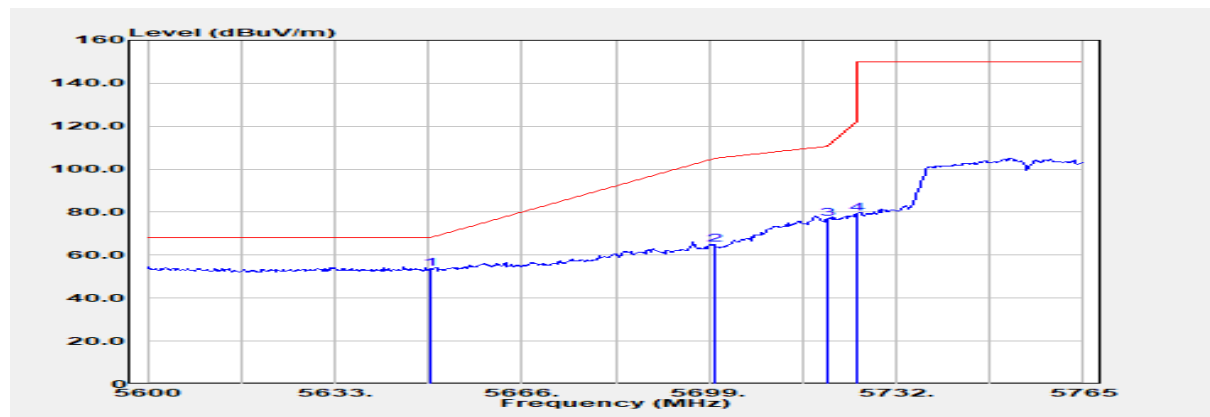
Temp./Humi. :25.1/54

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	43.21	10.51	53.71	68.20	-14.49
5700.000	Peak	54.46	10.41	64.87	105.20	-40.33
5720.000	Peak	66.24	10.76	77.00	110.80	-33.80
5725.000	Peak	68.70	10.62	79.32	122.20	-42.88

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 4

Test Date :2021-08-10

Test Frequency :5755 MHz

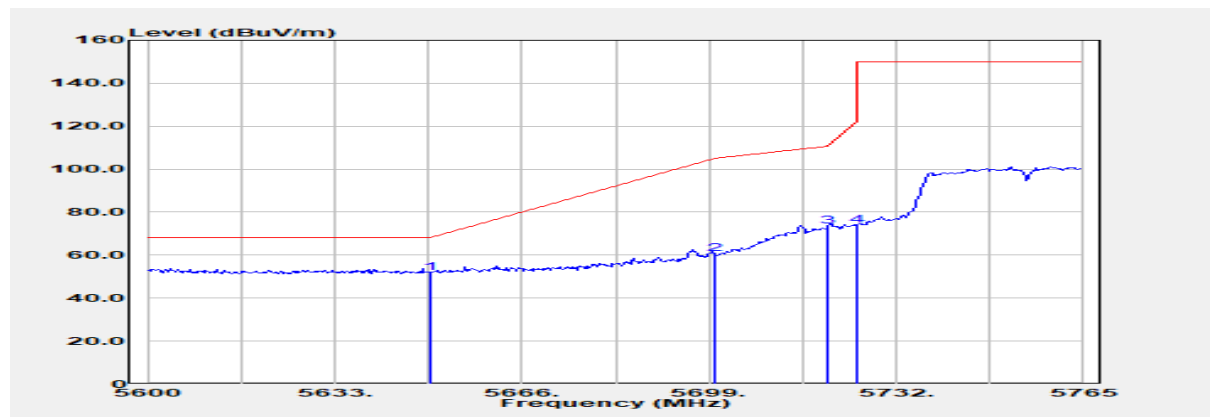
Temp./Humi. :25.1/54

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	41.11	10.51	51.61	68.20	-16.59
5700.000	Peak	50.05	10.41	60.46	105.20	-44.74
5720.000	Peak	62.43	10.76	73.19	110.80	-37.61
5725.000	Peak	63.14	10.62	73.76	122.20	-48.44

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 4

Test Date :2021-08-10

Test Frequency :5795 MHz

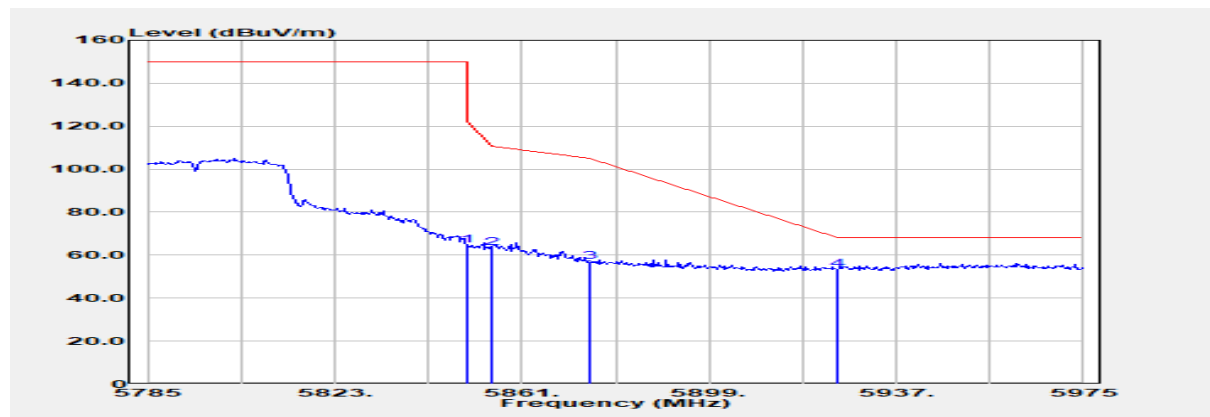
Temp./Humi. :25.1/54

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	53.29	11.31	64.60	122.20	-57.60
5855.000	Peak	51.60	11.61	63.21	110.80	-47.59
5875.000	Peak	44.76	12.08	56.84	105.20	-48.36
5925.000	Peak	40.35	12.98	53.33	68.20	-14.87

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac40 / Band 4

Test Date :2021-08-10

Test Frequency :5795 MHz

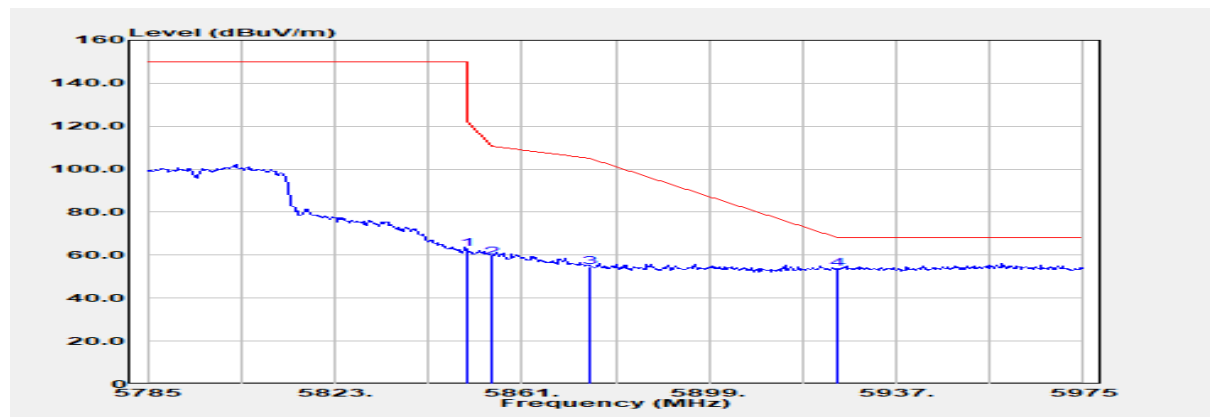
Temp./Humi. :25.1/54

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	51.80	11.31	63.11	122.20	-59.09
5855.000	Peak	47.51	11.61	59.12	110.80	-51.68
5875.000	Peak	42.52	12.08	54.60	105.20	-50.60
5925.000	Peak	40.75	12.98	53.73	68.20	-14.47

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 1

Test Date :2021-08-10

Test Frequency :5210 MHz

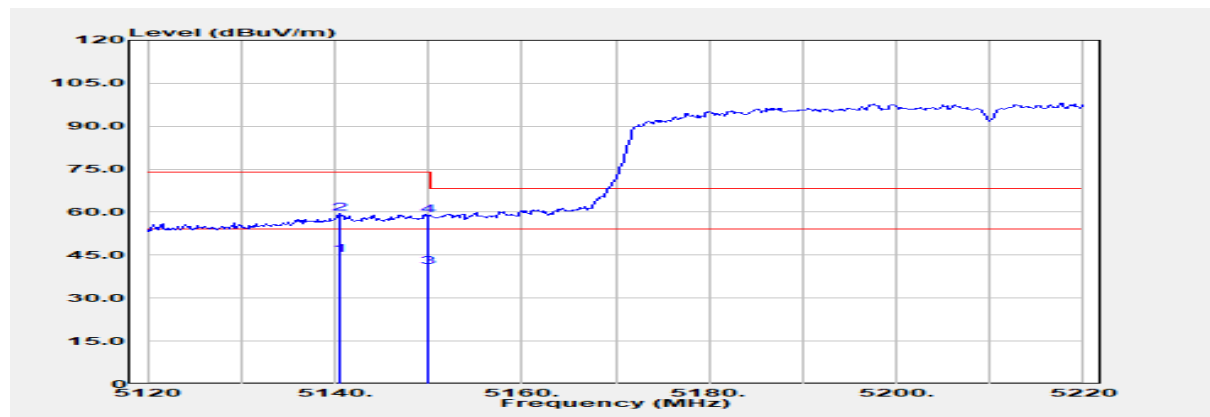
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.513	Average	34.62	10.42	45.04	54.00	-8.96
5140.513	Peak	49.23	10.42	59.65	74.00	-14.35
5150.000	Average	30.34	10.50	40.84	54.00	-13.16
5150.000	Peak	48.46	10.50	58.96	74.00	-15.04

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 1

Test Date :2021-08-10

Test Frequency :5210 MHz

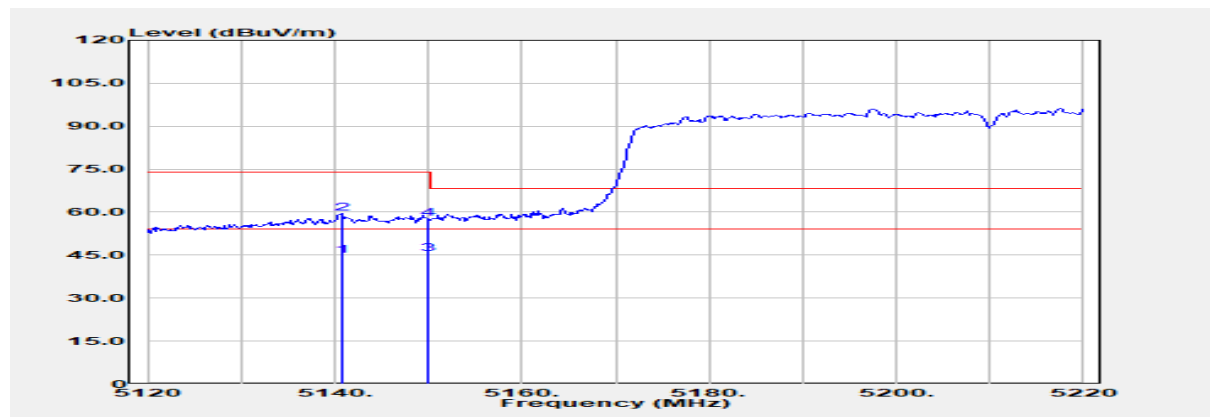
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.673	Average	34.31	10.43	44.74	54.00	-9.26
5140.673	Peak	48.99	10.43	59.42	74.00	-14.58
5150.000	Average	34.85	10.50	45.35	54.00	-8.65
5150.000	Peak	47.25	10.50	57.74	74.00	-16.26

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-10

Test Frequency :5290 MHz

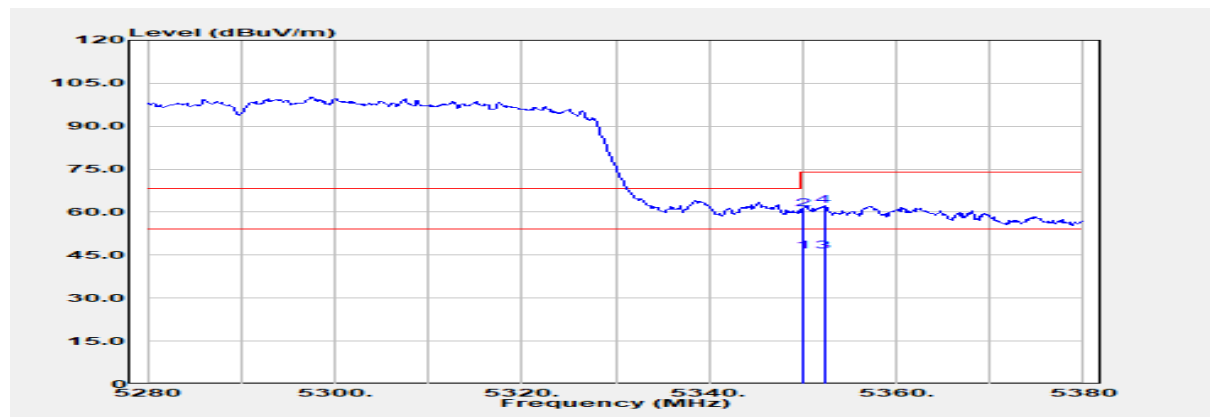
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	34.64	11.54	46.18	54.00	-7.82
5350.000	Peak	49.60	11.54	61.13	74.00	-12.87
5352.276	Average	34.77	11.56	46.33	54.00	-7.67
5352.276	Peak	50.70	11.56	62.26	74.00	-11.74

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-10

Test Frequency :5290 MHz

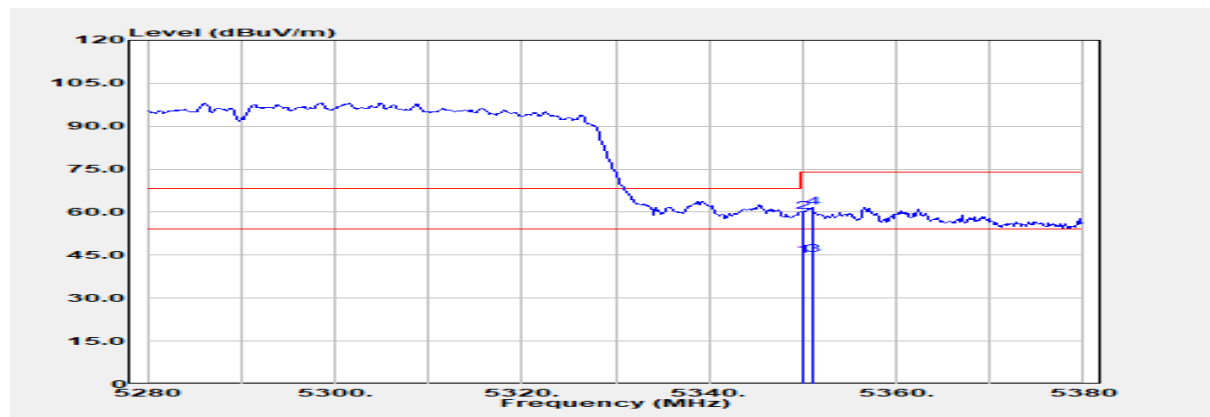
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	33.39	11.54	44.93	54.00	-9.07
5350.000	Peak	48.61	11.54	60.15	74.00	-13.85
5350.994	Average	33.44	11.55	44.99	54.00	-9.01
5350.994	Peak	50.25	11.55	61.80	74.00	-12.20

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-10

Test Frequency :5530 MHz

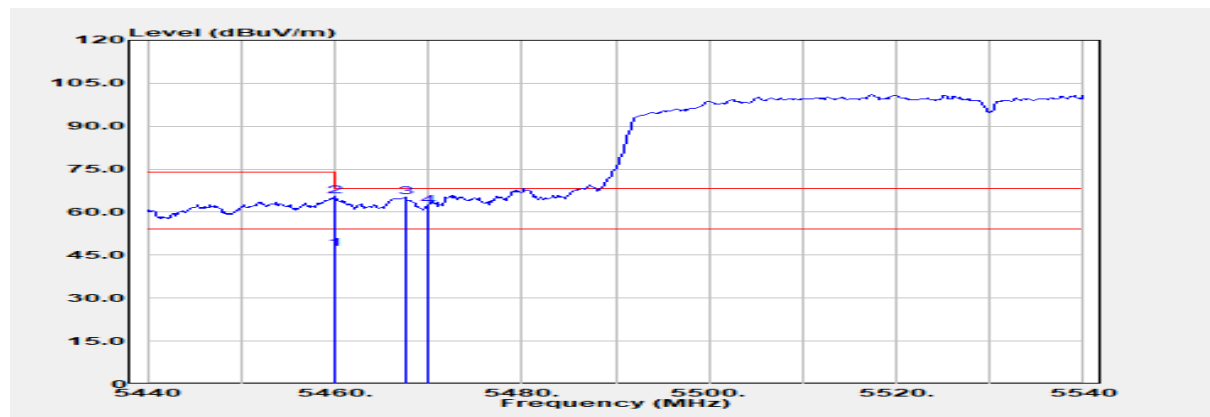
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.000	Average	35.59	11.66	47.25	54.00	-6.75
5460.000	Peak	53.92	11.66	65.59	74.00	-8.41
5467.564	Peak	53.40	11.72	65.11	68.20	-3.09
5470.000	Peak	50.48	11.73	62.21	68.20	-5.99

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-10

Test Frequency :5530 MHz

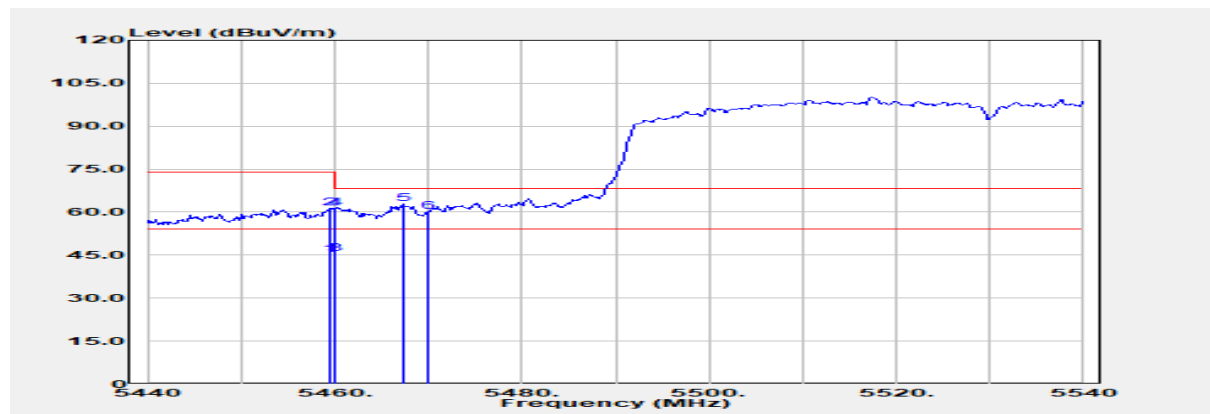
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.391	Average	33.45	11.70	45.15	54.00	-8.85
5459.391	Peak	49.80	11.70	61.50	74.00	-12.50
5460.000	Average	33.63	11.66	45.29	54.00	-8.71
5460.000	Peak	49.77	11.66	61.44	74.00	-12.56
5467.244	Peak	51.25	11.71	62.97	68.20	-5.23
5470.000	Peak	48.32	11.73	60.05	68.20	-8.15

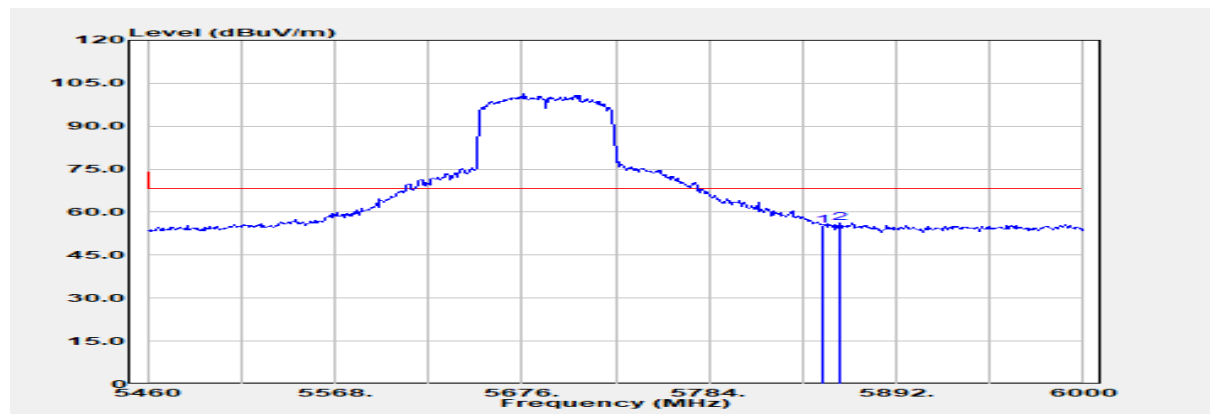
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Report Number :E2/2021/80036
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5690 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	43.95	11.31	55.26	68.20	-12.94
5858.942	Peak	44.49	11.85	56.33	68.20	-11.87

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-10

Test Frequency :5690 MHz

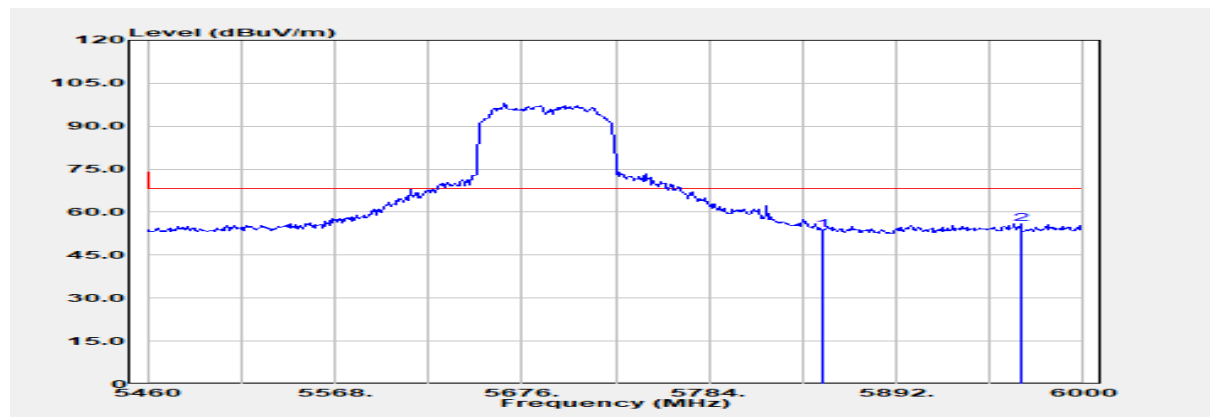
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	42.44	11.31	53.74	68.20	-14.46
5963.654	Peak	42.82	13.23	56.05	68.20	-12.15

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 4

Test Date :2021-08-10

Test Frequency :5775 MHz

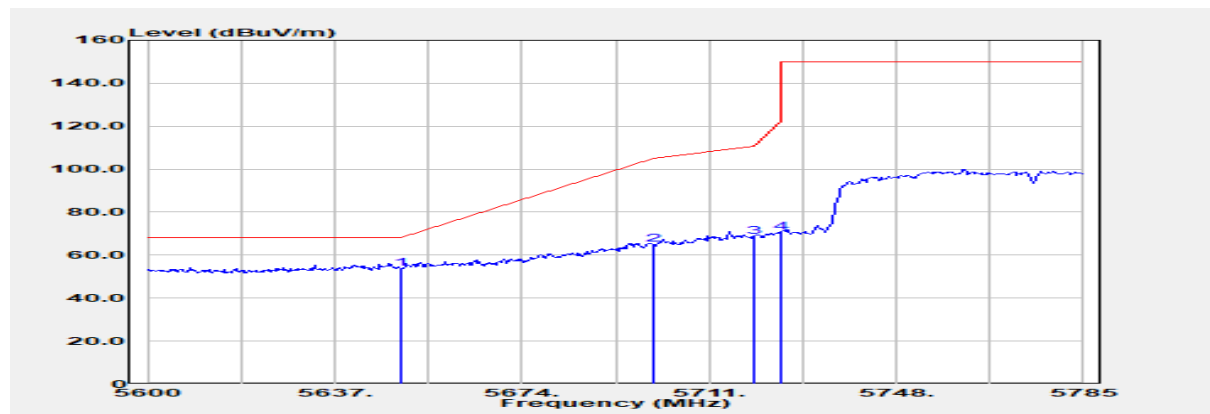
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	43.30	10.51	53.81	68.20	-14.39
5700.000	Peak	54.69	10.41	65.10	105.20	-40.10
5720.000	Peak	57.72	10.76	68.48	110.80	-42.32
5725.000	Peak	59.99	10.62	70.61	122.20	-51.59

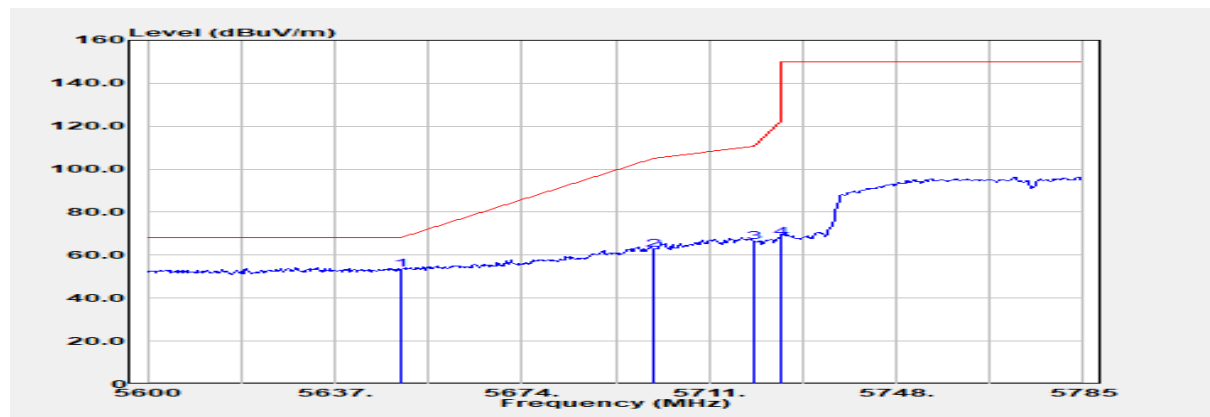
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Report Number :E2/2021/80036
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-10
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.89	10.51	53.40	68.20	-14.80
5700.000	Peak	52.11	10.41	62.52	105.20	-42.68
5720.000	Peak	55.52	10.76	66.28	110.80	-44.52
5725.000	Peak	57.63	10.62	68.25	122.20	-53.95

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 4

Test Date :2021-08-10

Test Frequency :5775 MHz

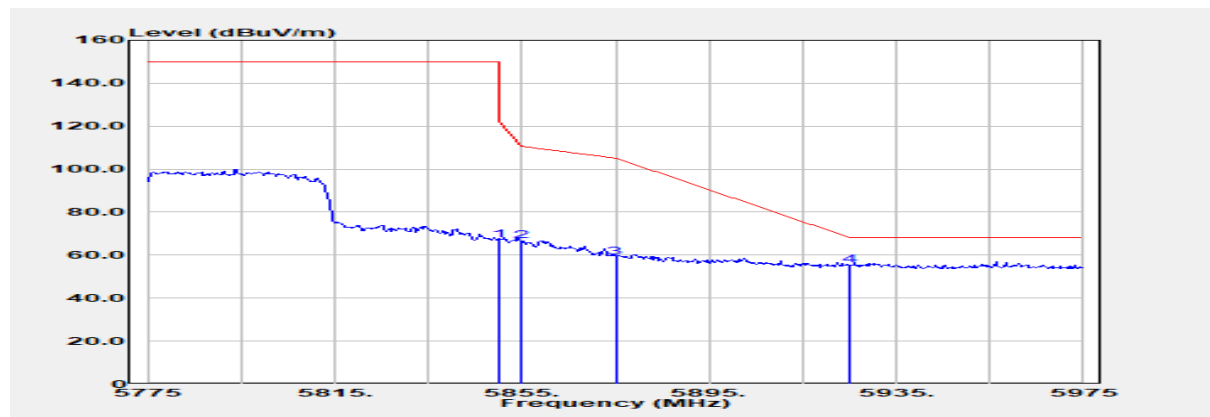
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.69	11.31	66.99	122.20	-55.21
5855.000	Peak	54.93	11.61	66.53	110.80	-44.27
5875.000	Peak	47.03	12.08	59.11	105.20	-46.09
5925.000	Peak	42.23	12.98	55.21	68.20	-12.99

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Report Number :E2/2021/80036

Test Site :SAC C

Operation Mode :802.11ac80 / Band 4

Test Date :2021-08-10

Test Frequency :5775 MHz

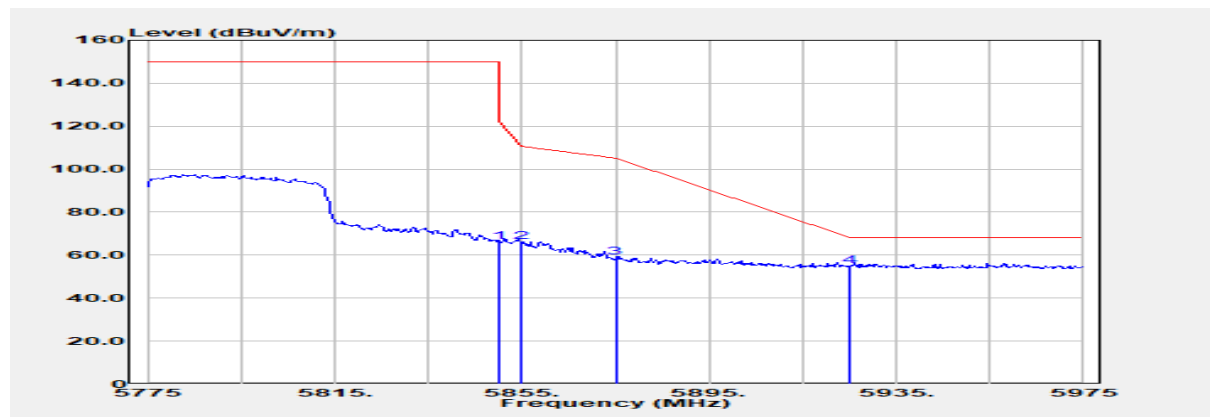
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.01	11.31	66.32	122.20	-55.88
5855.000	Peak	54.39	11.61	66.00	110.80	-44.80
5875.000	Peak	46.71	12.08	58.79	105.20	-46.41
5925.000	Peak	41.92	12.98	54.90	68.20	-13.30

~ End of Report ~

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